TOSHIBA V-726G

MODEL

SERVICE MANUAL

SECTION 3
SERVICING DIAGRAMS

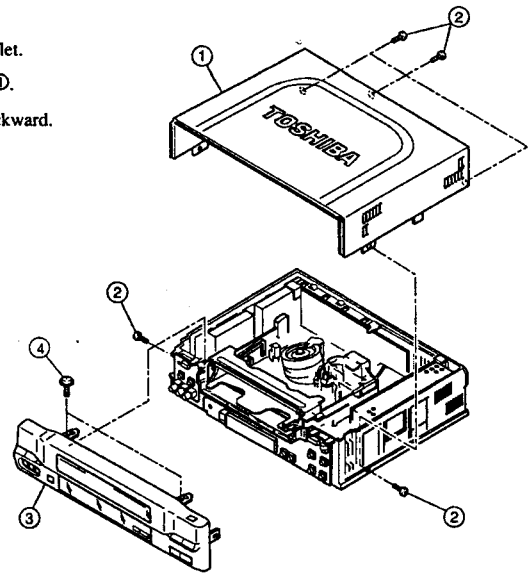
1. INSPECTION PROCEDURE

Operation steps		Items to be confirmed	Inspection block	Page	
				Block Diagram	Circuit Diagram
1. Power SW ON	Time setting Timer/counter, Memory Channel selection, AFC operation, EE picture & tone quality	Clock setting operation Mode display lamp TV receive condition, Channel select operation, AFC operation level, EE picture quality, Tone signal level	KDB Power Logic RF reception Video (EE, REC mode) Audio (EE, REC mode)	3-13 3-11 3-17 3-12 3-24 3-27	3-38 3-31 3-44 3-34 3-50 3-56
2. Cassette-in and Cassette-out	Cassette-in Cassette loading Eject Casette-out	F/L mechanism operation Cassette loading operation Eject operation Indicator lamp Abnormal sound	Logic	3-17	3-44
3. Key Enry Operation Remote Control	REC, PLAY Cue/Review Still, Frame advance/slow FF/REW	VTR display, OSP Each mode operation (Tape drive operation) Abnormal sound	KDB Logic	3-13 3-17	3-38 3-44
4. Special Functions Counter Functions Tracking	Linear time counter, Index/skip search, Time search Digital auto tracking	Each mode operation Mode operation	Servo/Logic Servo/Logic	3-17 3-17	3-44 3-44
5. Playback Function Picture Sharpness Tone Quality Othres	PLAY (Test tape: ST-C6, ST-C7) Cue/Review Still/Slow	Resolution, S/N Hue, Saturation, Color unevenness, Color dropout, Sound distortion, Level variation, Picture noise, Jitter Picture swing, Skew distortion, Flicker, Beat	Video PLAY system Audio PLAY system Servo system	3-24 3-27 3-17	3-50 3-56 3-44
6. REC/PLAY Functions Picture Sharpness Tone Quality Others	REC/PLAY	Resolution, S/N Hue, Saturation, Color unevenness, Color dropout, Sound distortion, Level variation, Picture noise, Jitter Picture swing, Skew distortion, Flicker, Beat	Video PLAY system Audio PLAY system Servo system	3-24 3-27 3-17	3-50 3-56 3-44

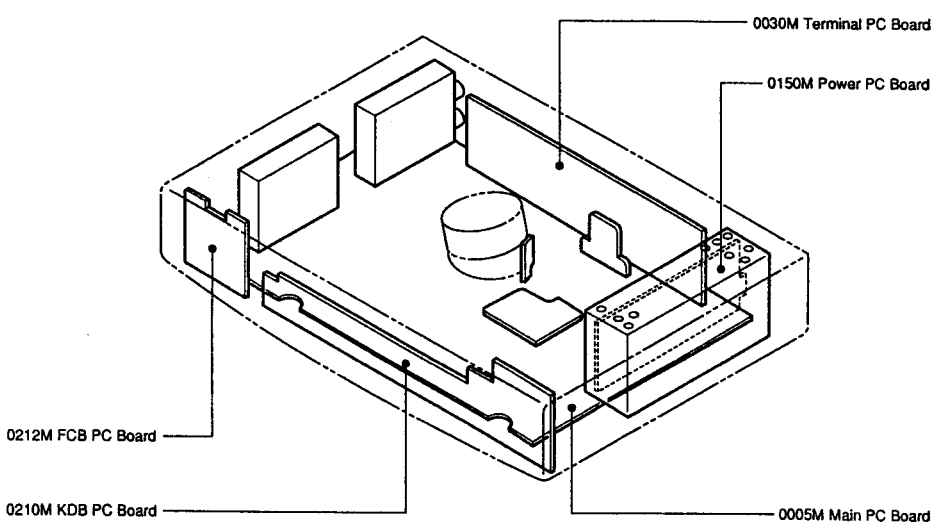
How to use the table
1. When inspecting a defective VTR, proceed according to the steps shown in the table.
2. Check the items to be confirmed for each operation step.
3. If a problem is found on the item, check waveforms (level) referring to the block diagram relating to the items.
4. Use PC board pattern diagram and schematic diagram to examine the circuit precisely.

2. REMOVAL OF CABINET

1. Disconnect power cord plug from AC outlet.
2. Remove 5 screws ② securing top cover ①.
3. Remove the top cover ① by sliding it backward.
4. Remove 2 screws ④.
5. Remove the front panel ③.



3. ELECTRICAL UNITS LOCATION DIAGRAM



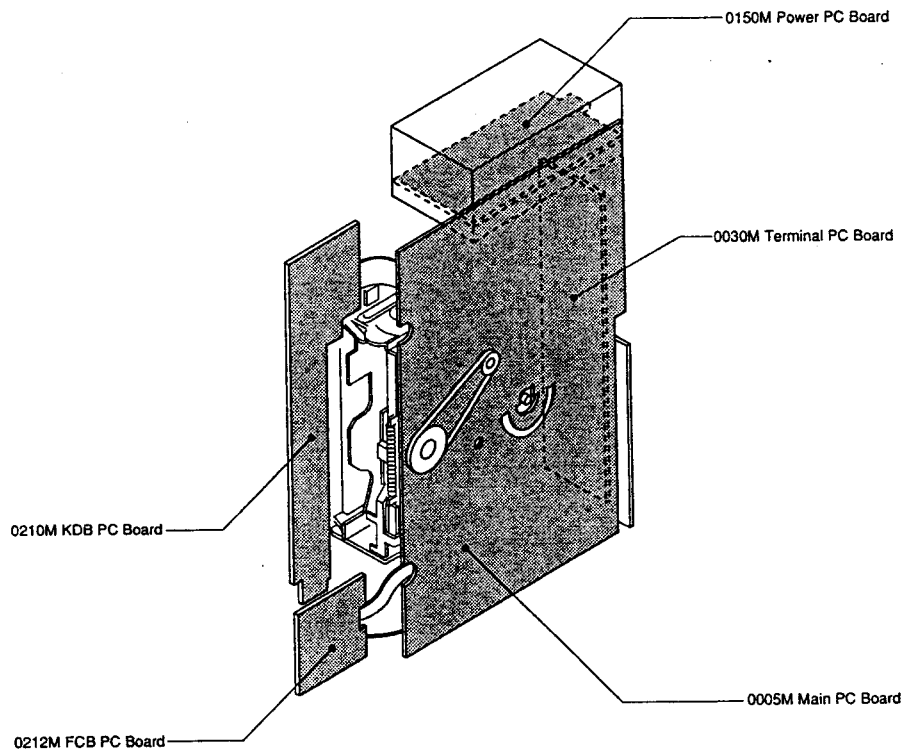
4. STANDING PC BOARDS FOR SERVICING

After removing the mechanical deck with the main PC board, place the mechanical deck to upright. Then perform servicing in the condition that all the units are connected each other.

Note:

Applying an excessive force to the connector connecting KDB and FCB PC board will damage the connector.

So, take much care when removing them.



5. PART CONFIGURATION AND THEIR SYMBOLS

1.ICs

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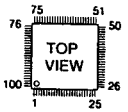
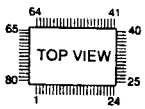
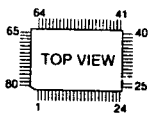
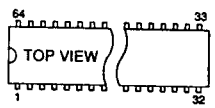
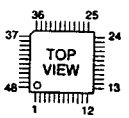
TMP90CR74DF-7504	
TMP87CK70AF-6311	
TA8863AF	
MSP3410	
LA7447M	
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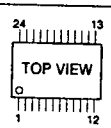
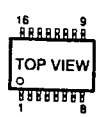
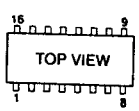
LC89970M	
MC14094BD	
74HC4053	

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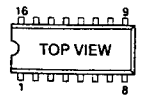
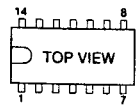
TB6515AP	
U4614B	
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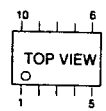
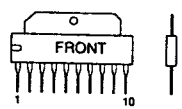
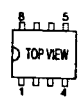
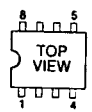
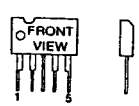
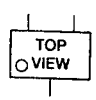
LA7356M	
TA7291S	
ST24C04 LM393N BA7046	
TA75557P	
BA7755	
PST7032MT	

NAME	SHAPE
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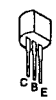
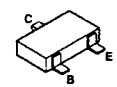
BC337	
BC848,RN1404 BC858,RN1405 BC858,RN2403 BC847B,BC848B RN2402,2SA1162-Y RN1402	
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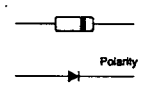
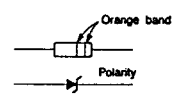
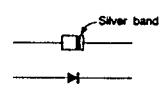
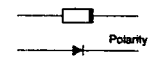
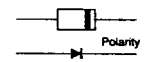
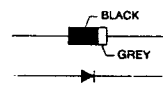
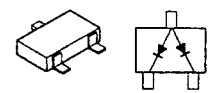
1N4148 1N4448 1N4148 ZPD10V 1N4007	
ZPD5.6	
FUF5405 BA157 MUR115 BA158 MUR115	

NAME	SHAPE
ZP5.1 1N4001 BAV20 ZPD8.2 ZPD2.7	
BAV20	
1N5822 BA157	
1SS181	
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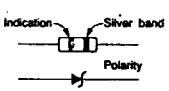
ZPD12	

5. PART CONFIGURATION AND THEIR SYMBOLS

1.ICs

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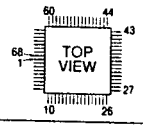
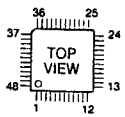
MSP3410B	
LA7447BM	
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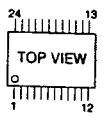
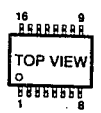
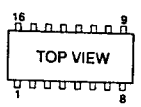
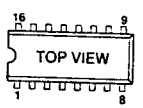
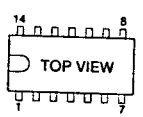
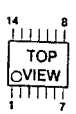
LC89970M	
MC14094BD	
74HC4053	
TB6515AP	
U4614B	
BA3129F	

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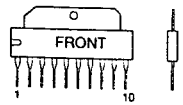
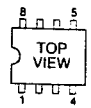
TA7291S	
TA75557P	
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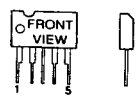
BA7755	
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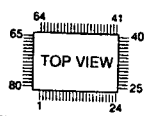
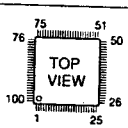
TA8863CF TMP87CM70AF	
TMP90CS74DF	

2.TRANSISTORs

BC558B	

NAME	SHAPE
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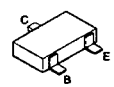
BC337	
BD435	
BC847B,2SA1162GR,2SC2714-Y BC848,RN1401,2SA1162-Y BC858,RN1402 BC858,RN1404 BC848B,RN1405 RN2402,RN2403	

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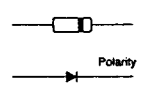
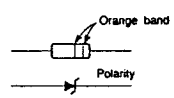
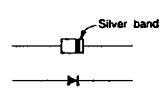
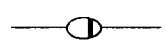
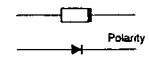
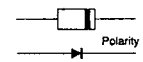
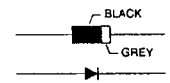
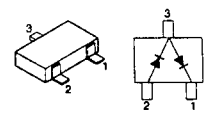
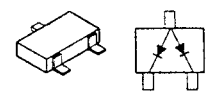
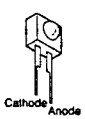
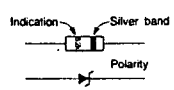
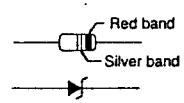
1N4448,MTZJ4.7C 1N4148 BZX55B2V7 1N4148 ZPD10V 1N4007	
ZPD5.6	
MUR115 BA158 FUF5405	
MUR115	

NAME	SHAPE
ZP5.1 1N4001 BAV20 ZPD8.2	
BAV20 FR104	
FR104 1N5822	
1SS226	
1SS181	
ZMM5.6 LS4448	
GL451V	
ZPD12 MTZJ33B	
LS4148	

5-1. Replacing Subminiature "CHIP" Parts

5-1-1. Required Tools:

1. Fine tipped, well insulated soldering "pencil", about 30 Watts.
2. Tweezers.
3. Blower type hair dryer.

5-1-2. Soldering Cautions:

1. Do not apply heat for more than 3s.
2. Avoid using a rubbing stroke when soldering.
3. Discard removed chips; do no reuse them.
4. Supplementary cementing is not required.
5. Use care not to scratch or otherwise damage the chips.

5-1-3. Removal (Resistors, Capacitors, etc.):

1. Melt the solder at one side.

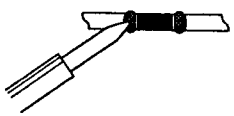


Fig. 1

2. Grasp the part with tweezers and melt the solder at the other side.

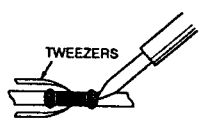


Fig. 2

3. Remove the part with a twisting motion.

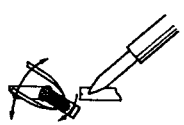


Fig. 3

5-1-4. Removal (Transistors, Diodes, etc.):

1. Melt the solder of one lead.

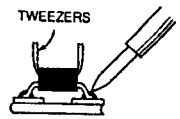


Fig. 4

2. Lift the side of that lead upward.

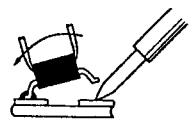


Fig. 5

3. Simultaneously heat solder the two remaining leads and lift part to remove.

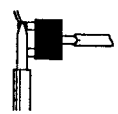


Fig. 6

5-1-5. Preheating (Except for semiconductors):

Immediately before installing new resistors or capacitors, use a blower type hair dryer and prehea' he part for about two min. at approximately 150°C.

5-1-6. Replacement:

1. Presolder the contact points of the circuit pattern.

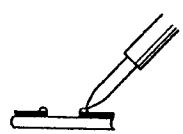


Fig. 7

2. Press the part downward with tweezers and apply the soldering pencil as indicated in the figure.

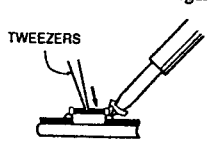


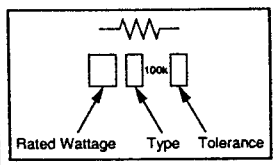
Fig. 8

5-2. Precautions for Part Replacement

- In the schematic diagram, parts marked ⚠ (ex. ⚠ F801) are critical part to meet the safety regulations, so always use the parts bearing specified part codes (SN) when replacing them.
- Using the parts other than those specified shall violate the regulations, and may cause troubles such as operation failures, fire etc.

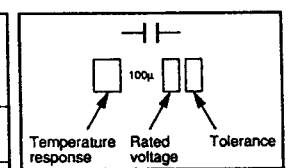
5-3. Solid Resistor Indication

Unit	None .....Ω k .....kΩ M .....MΩ
Tolerance	None .....±5% B .....±0.1% C .....±0.25% D .....±0.5% E .....±1% G .....±2% K .....±10% M .....±20%
Rated Wattage	(1) Chip Parts None ..... 1/16W (2) Other Parts None ..... 1/6W Other than above, described in the Circuit Diagram.
Type	None .....Carbon film S .....Solid R .....Oxide metal film W .....Metal film W .....Cement FR .....Fusible



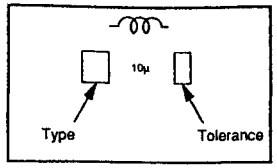
5-4. Capacitance Indication

Symbol	.....Electrolytic, Special electrolytic .....Non polarity electrolytic .....Ceramic, plastic .....Film .....Trimmer
Unit	None .....F μ .....μF p .....pF
Rated voltage	None .....50V For other than 50V and electrolytic capacitors, described in the Circuit Diagram.
Tolerance	(1) Ceramic, plastic, and film capacitors of which capacitance are more than 10 pF. None .....±5% or more B .....±0.1% C .....±0.25% D .....±0.5% F .....±1% G .....±2% (2) Ceramic, plastic, and film capacitors of which capacitance are 10 pF or less. None .....more than ±5% pF B .....±0.1 pF C .....±0.25 pF (3) Electrolytic, Trimmer Tolerance is not described.
Temperature characteristic (Ceramic capacitor)	None .....SL For others, temperature characteristics are described. (For capacitors of 0.01 μF and no indications are described as F.)



5-5. Inductor Indication

Unit	None .....H μ .....μH m .....mH
Tolerance	None .....±5% B .....±0.1% C .....±0.25% D .....±0.5% F .....±1% G .....±2% K .....±10% M .....±20%
Type	PL .....Peaking For other, model name is described.



5-6. Waveform and Voltage Measurement

- Measurement of waveform and voltage at each section in the color circuits was conducted with sufficient service color bar signal being received and reproduced in normal conditions.
- Waveforms and voltage values for the remaining circuit were measured with a broadcasting signal normally received, so they may vary slightly according to the programs being received. Use them as a measure for servicing.
- All voltage values except the waveforms are expressed in DC and measured by a digital voltmeter.

5-7. Chip Part Replacement

(Use spare part with wire leads connected.)

1. Hold a Chip part to be removed with tweezers and apply heat to the solder at one end of the part with a soldering iron. (Fig. 9)

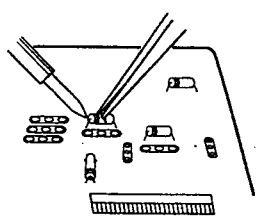


Fig. 9

2. Apply heat to the solder at the other end of the part and remove it.

   The heating time should be as short as possible so the excessive heat is not applied to foil patterns and the PC Board.

3. If it is difficult to remove the part, temporarily stop the desoldering job and wait until temperature of the part lowers.

   Then, repeat steps 1 and 2.

4. Form leads of the replacement part (general part equivalent to the chip part) as shown in the figures and solder place. (Fig. 10)

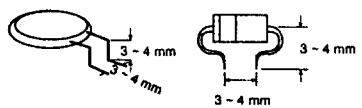


Fig. 10

5. Mount the replacement part so that it does not touch any other parts. (Fig. 11)

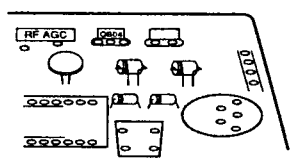
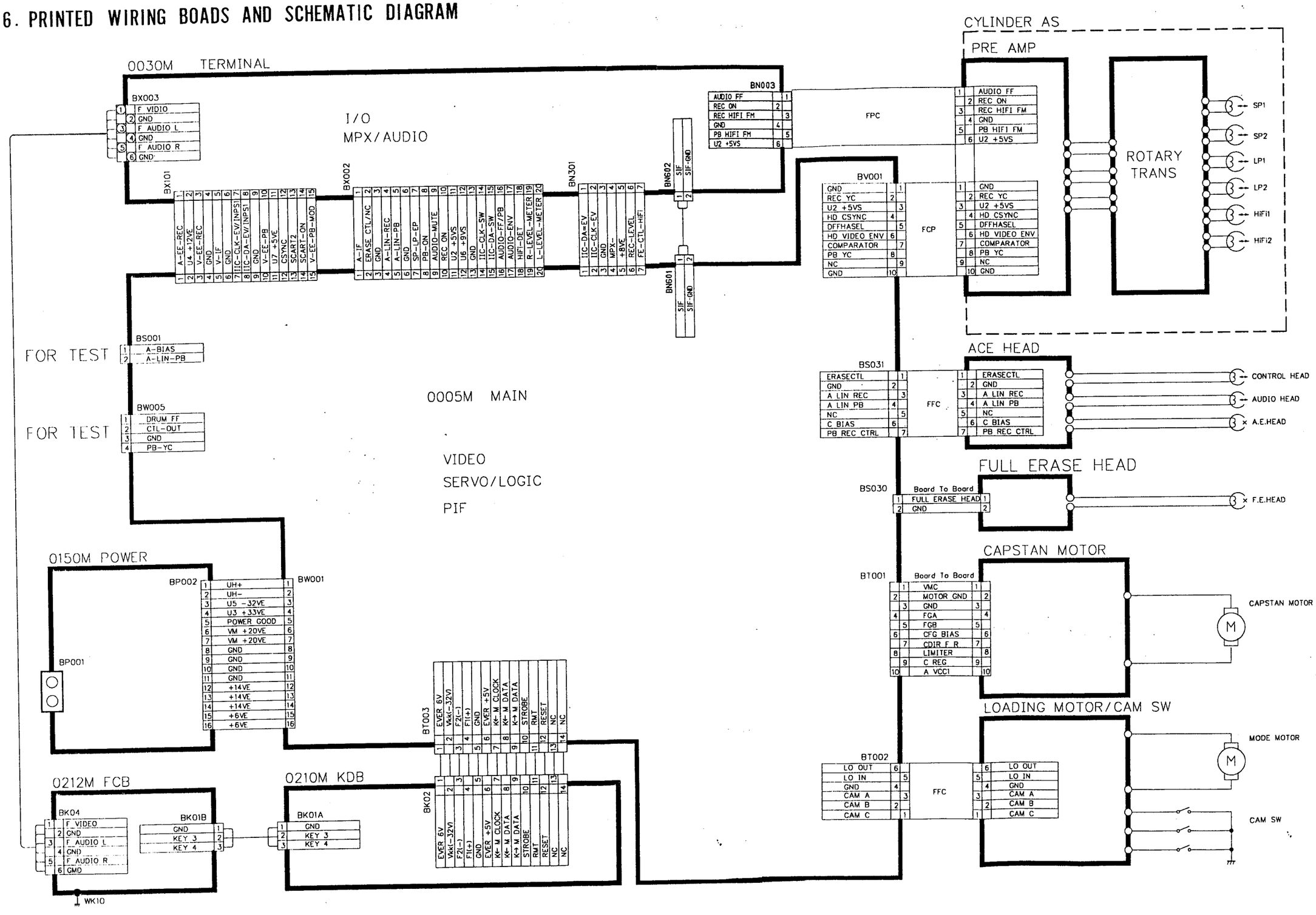


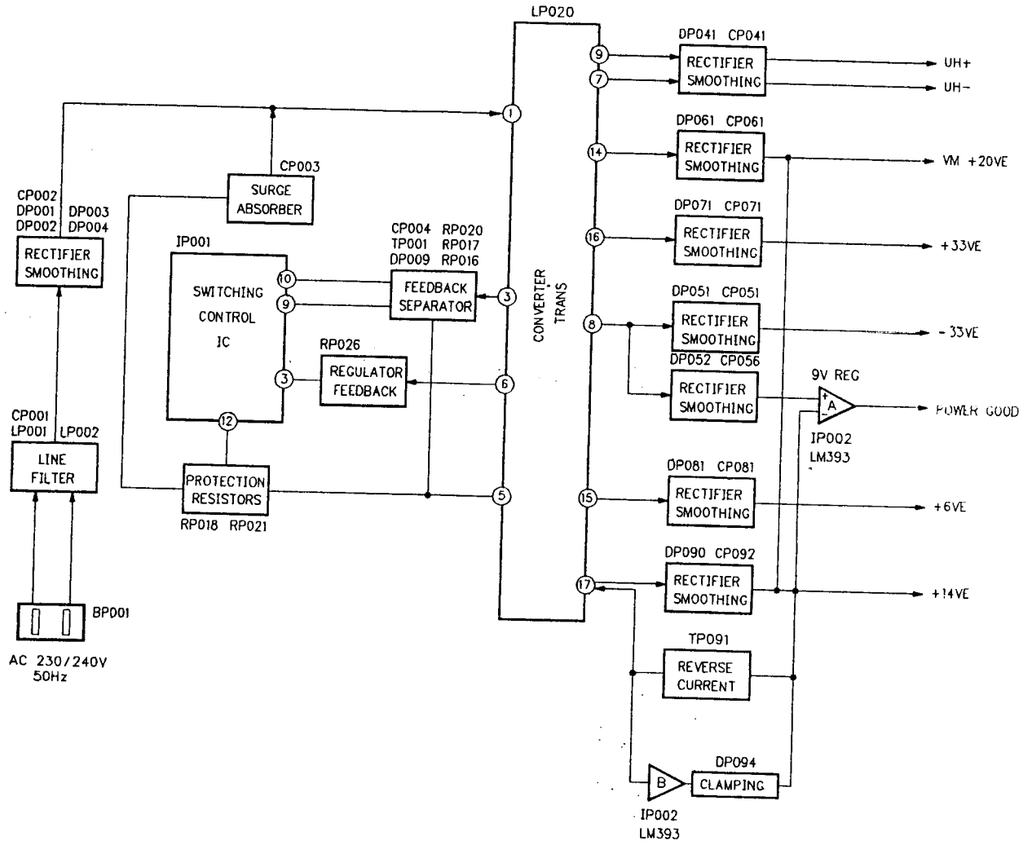
Fig. 11

6. PRINTED WIRING BOADS AND SCHEMATIC DIAGRAM

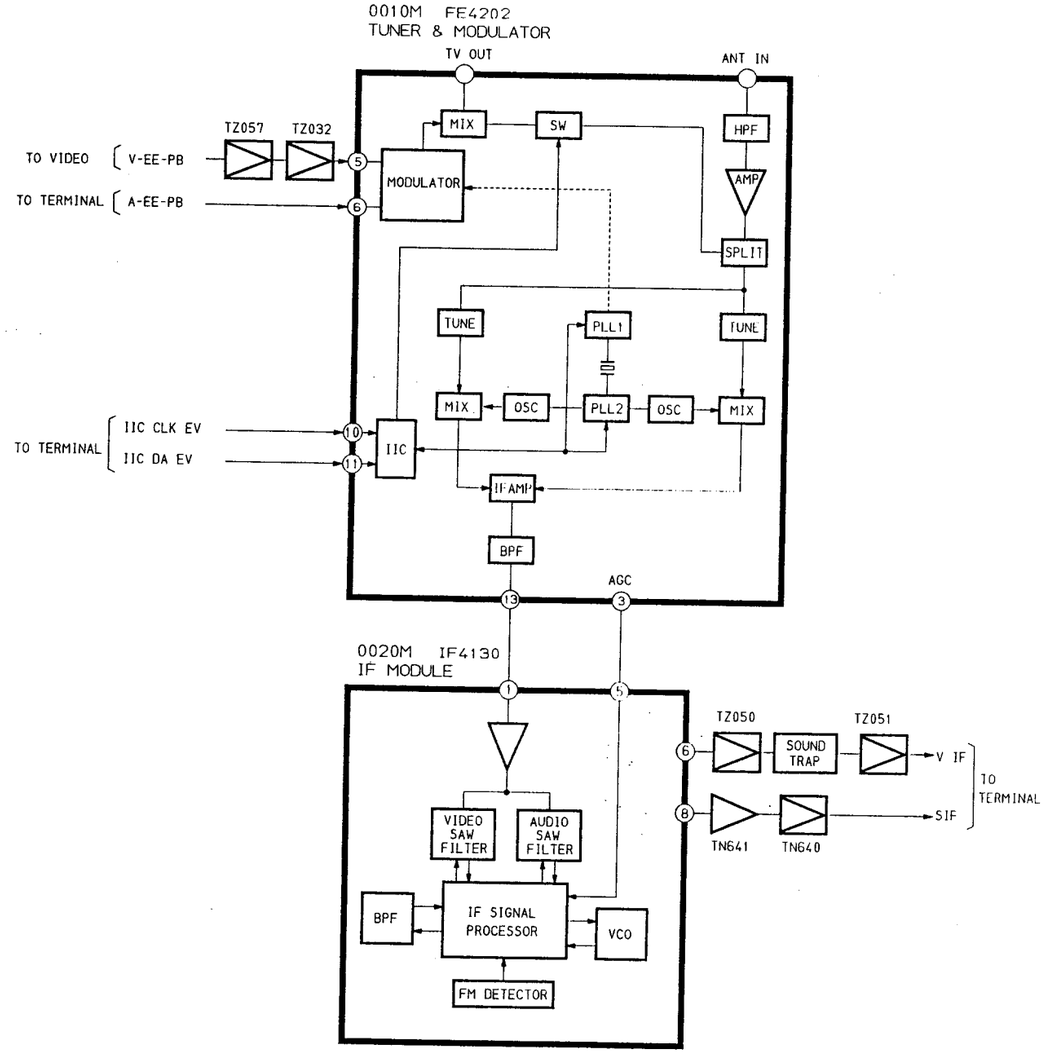


7. BLOCK DIAGRAM

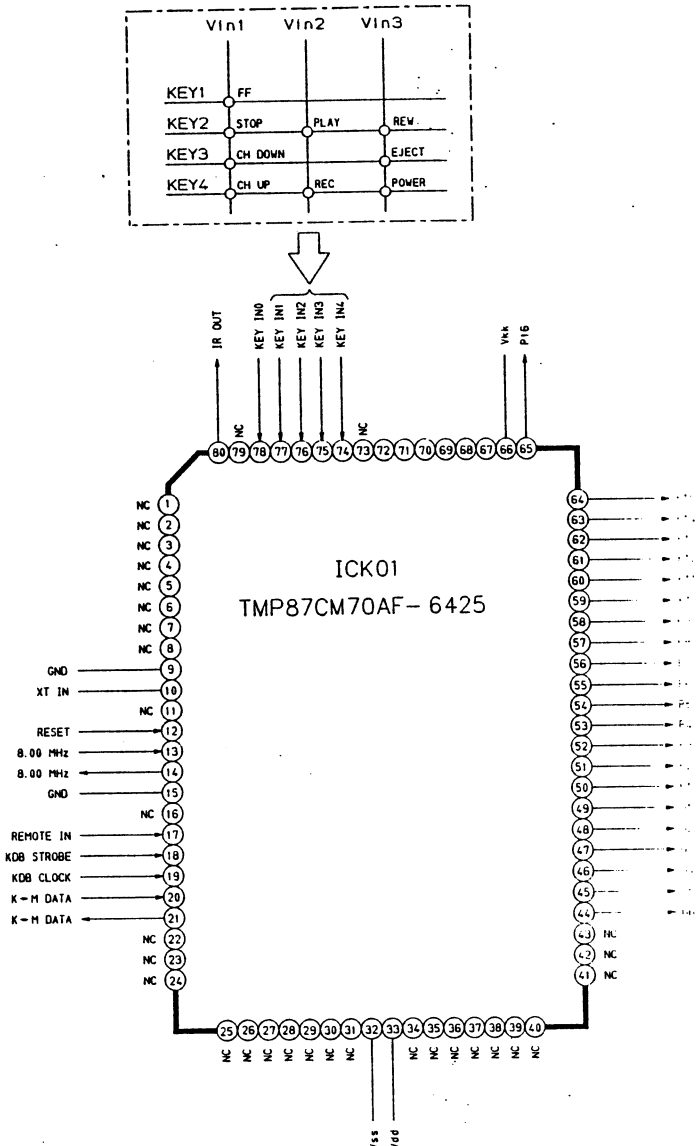
7-1. POWER BLOCK DIAGRAM



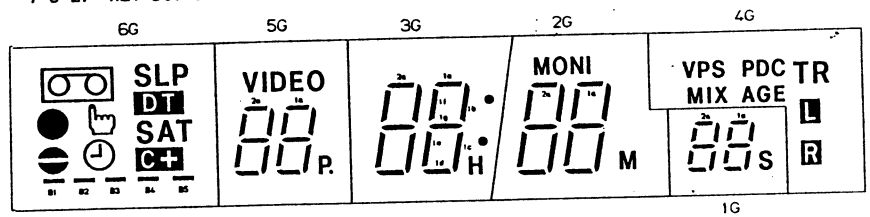
7-2. PIF BLOCK DIAGRAM



7-3-1. KDB MICROCOMPUTER TERMINAL FUNCTION



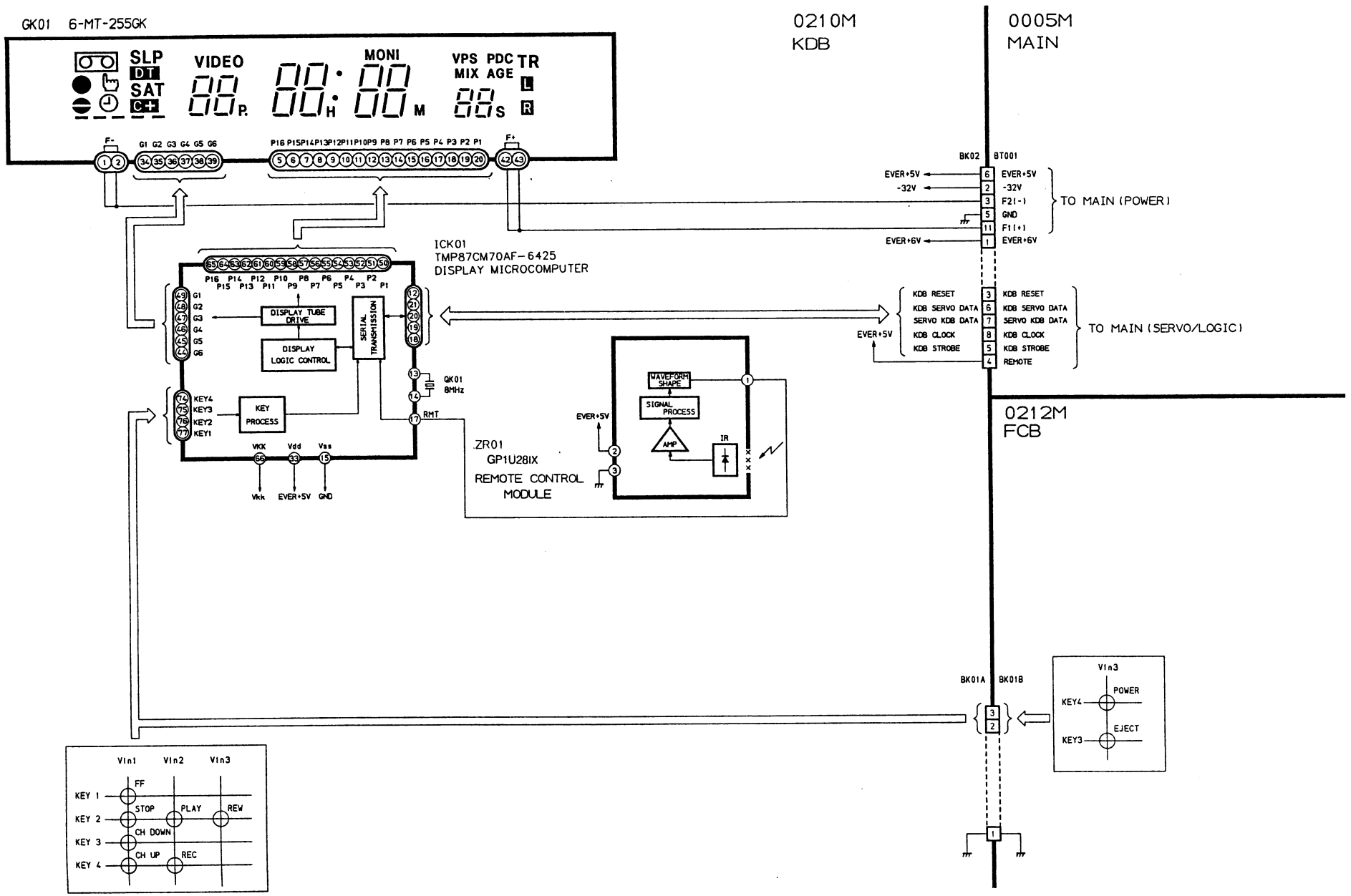
7-3-2. KEY DISPLAY GK01 6-MT-255GNK



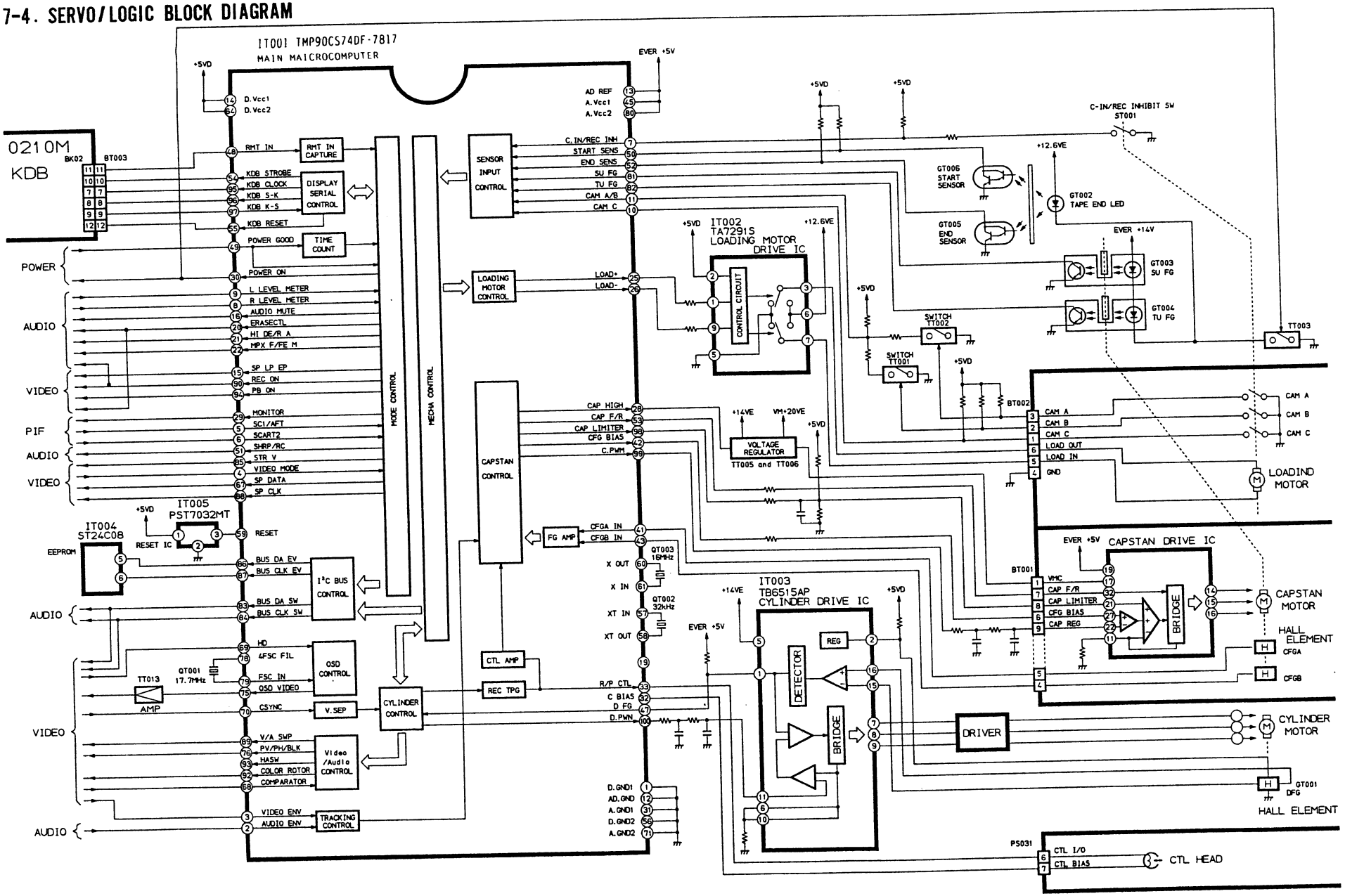
7-3-3. DISPLAY PATTTERN

	6G	5G	4G	3G	2G	1G
P1	◷	1d	VPS	1d	1d	1d
P2	▬	1e	MIX	1e	1e	1e
P3	☜	1c	AGE	1c	1c	1c
P4	●	1g	PDC	1g	1g	1g
P5	P	1f	L	1f	1f	1f
P6	L	1b		1b	1b	1b
P7	S	1a	R	1a	1a	1a
P8	📼	VIDEO	TR	H	M	S
P9	B5	2d		2d	2d	2d
P10	B4	2e		2e	2e	2e
P11	B3	2c		2c	2c	2c
P12	B2	2g		2g	2g	2g
P13	B1	2f		2f	2f	2f
P14	C+	2b		2b	2b	2b
P15	SAT	2a		2a	2a	2a
P16	DT	P.		col :	MONI	

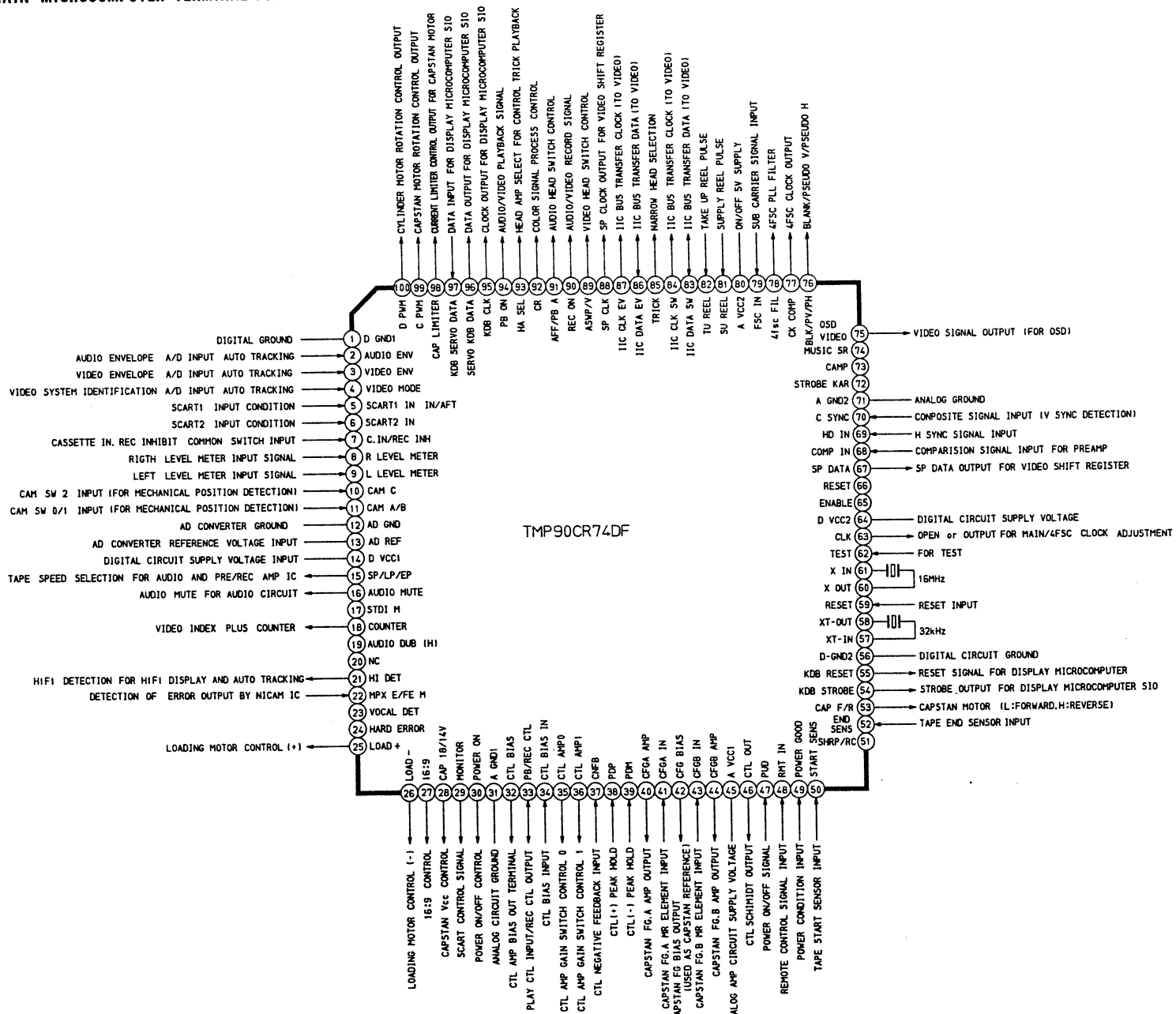
7-3. KDB BLOCK DIAGRAM



7-4. SERVO/LOGIC BLOCK DIAGRAM



7-4-1. IT001 MAIN MICROCOMPUTER TERMINAL FUNCTION



7-4-2. IT001 Main Microcomputer Output Polarity

Pin No.	MODE / Pin Name	ACTIVE	SLOT IN	SLOT OUT	Loading	Unloading	STOP	STAND -BY	FF	REW	PLAY SP SLP	Double Speed PLAY	CUE	REV	STILL	SLOW	REC SP SLP	REC PAUSE SP SLP	POWER OFF	INITIAL
16	A.MUTE1	H	L	L	L	L	L	L	L	L	L	L	H	H	H	H	L	L	H	H
25	LOAD+	L	L	H	L	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
26	LOAD-	L	H	L	H	L	H	H	H	H	H	H	H	H	H	H	H	H	H	H
30	POWER ON	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	H	H
33	R/P CTL	⎍	-	-	-	-	-	-	-	-	-	-	-	-	-	-	⎍	-	-	OPEN
46	CTL OUT	⎍	L	L	L	L	L	L	⎍	←	←	←	←	←	L	⎍	⎍	L	L	L
53	CAP F/R	-	L	H	L	H	H	H	L	H	L	L	L	H	L	⎍	L	L	H	L
54	KDB STB	⎍	⎍	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	L
67	SP DATA	▒	▒	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	L
76	PV/PH/BLK	4ST	4ST	←	←	←	←	←	←	←	4ST	←	←	←	←	←	←	←	L	4ST
83	I2C DATA1	▒	▒	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	H
84	I2C CLOCK1	▒	▒	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	H
85	TRICK	H	L	L	L	L	L	L	L	L	L	H	H	H	H	H	L	L	L	L
86	I2C DATA2	▒	▒	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	H
87	I2C CLOCK2	▒	▒	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	H
88	SP CLK	▒	▒	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	L
89	DFF	⎍	⎍	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	OPEN	OPEN
92	CR	⎍	⎍	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	L	L
93	HASW	⎍	L	L	L	L	L	L	-	-	L H	⎍	←	←	←	←	L H	L ⎍	L	L
95	KDB CLK	▒	▒	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	L
96	DATA M→KDB	▒	▒	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	L
98	CAP LIMITER	PWM	L	L	PWM	←	L	PWM	←	←	←	←	←	←	L	PWM	←	←	L	500mA
99	CPWN	PWM	PWM	PWM	PWM	←	L	L	PWM	←	←	←	←	←	L	PWM	←	L	L	L
100	DPWN	PWM	L	L	PWM	←	L	PWM	←	←	←	←	←	←	←	←	←	←	L	L

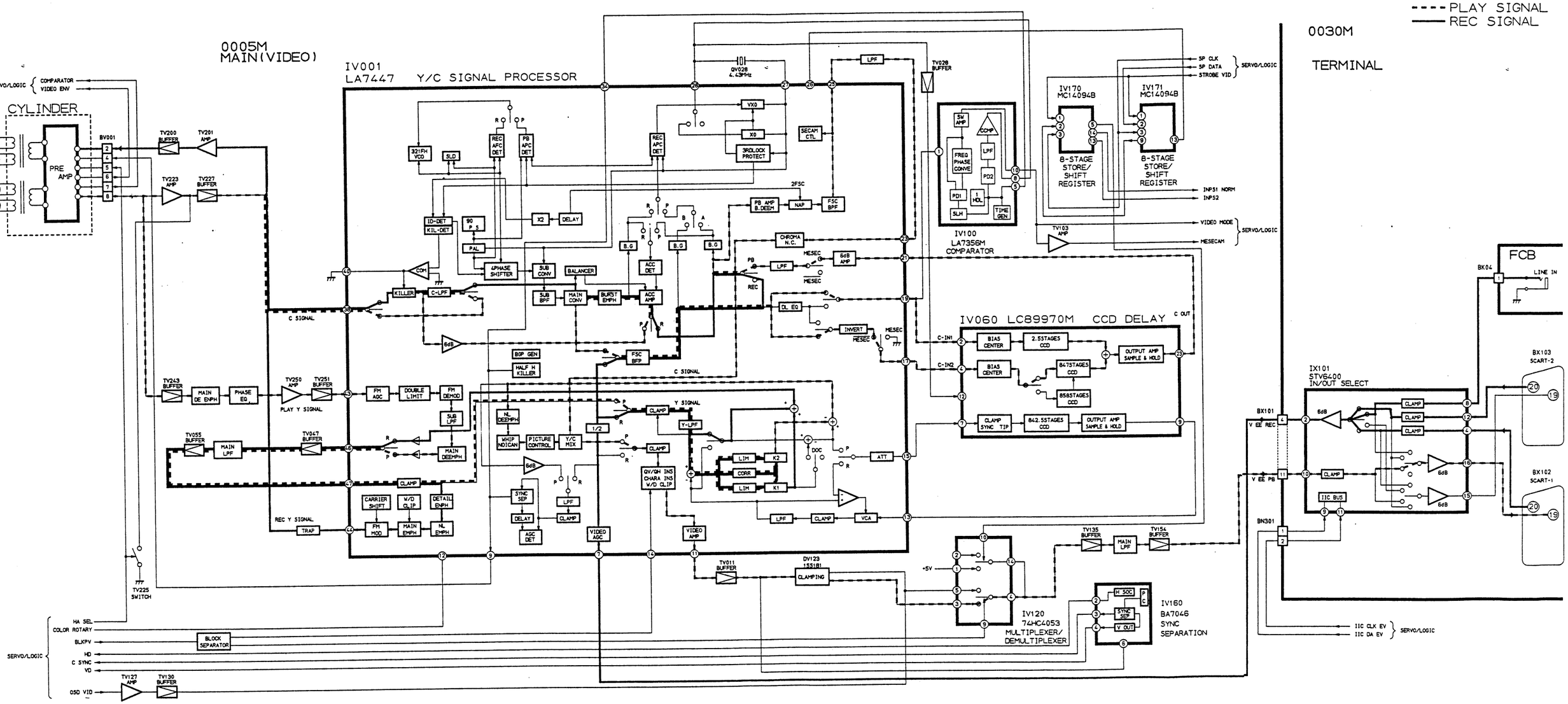
7-4-3. Logic Mode Shift Table

KEY / MODE	POWER	STOP	PLAY	FF	REW	SLOW	PAUSE	REC	EJECT	Remain Count/ Time	INDEX	Counter RESET	T. Start	T. End
STOP	OFF	—	○	○	○	×	×	○	EJECT	○	SEARCH	RESET	S. FF	S. REW
FF	OFF	○	○	CUE	○	×	×	×	EJECT	○	×	RESET	—	STOP
REW	OFF	○	○	○	REVIEW	×	×	×	EJECT	○	×	RESET	STOP	—
PLAY	OFF	○	Double Speed Play	CUE	REVIEW	○	STILL	×	EJECT	○	SEARCH	RESET	—	REWIND
SLOW	OFF	○	○	CUE	REVIEW	○	STILL	×	EJECT	○	×	RESET	—	REWIND
STILL	OFF	○	Frame adv	CUE	REVIEW	Frame adv	PLAY	REC Pause	EJECT	○	* 5	RESET	—	REWIND
CUE	OFF	○	○	* 1	REVIEW	×	×	×	EJECT	○	×	RESET	—	REWIND
REVIEW	OFF	○	○	CUE	* 3	×	×	×	EJECT	○	×	RESET	STOP	—
ACC. CUE	OFF	○	○	* 2	REVIEW	×	×	×	EJECT	○	×	RESET	—	REWIND
ACC. REV	OFF	○	○	CUE	* 4	×	×	×	EJECT	○	×	RESET	STOP	—
REC	OFF	○	×	×	×	×	REC Pause	—	×	○	V. Mark	RESET	—	REWIND
REC PAUSE	OFF	○	×	×	×	×	REC	×	×	○	×	RESET	—	—
VISS MARK	OFF	○	×	×	×	×	×	×	×	×	—	RESET	—	REWIND
POWER OFF	ON	×	×	×	×	×	×	×	EJECT	×	×	×	—	—
Timer-Standby	ON	×	×	×	×	×	×	×	×	×	×	×	—	—
Timer-REC	ON	×	×	×	×	×	×	×	×	○	V. Mark	RESET	—	Timer Standby

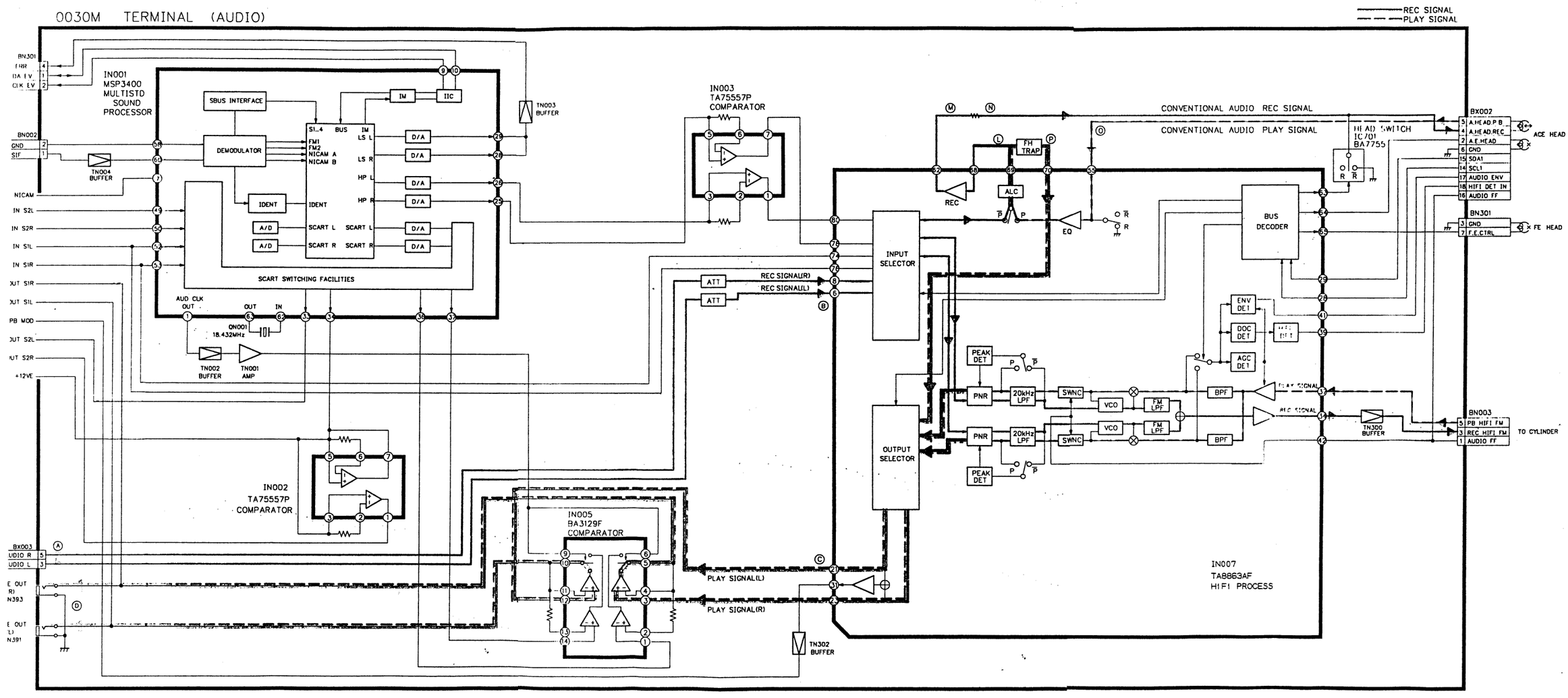
×: No Shift (Current mode)

* 1 : If pressed within 1s, FF. If not, all CUE
* 2 : If pressed by Remote Control Unit, FF.
* 3 : If pressed within 1s, REW. If not, all REVIEW
* 4 : If pressed by Remote Control Unit, REW.
* 5 : For index rewrite only.

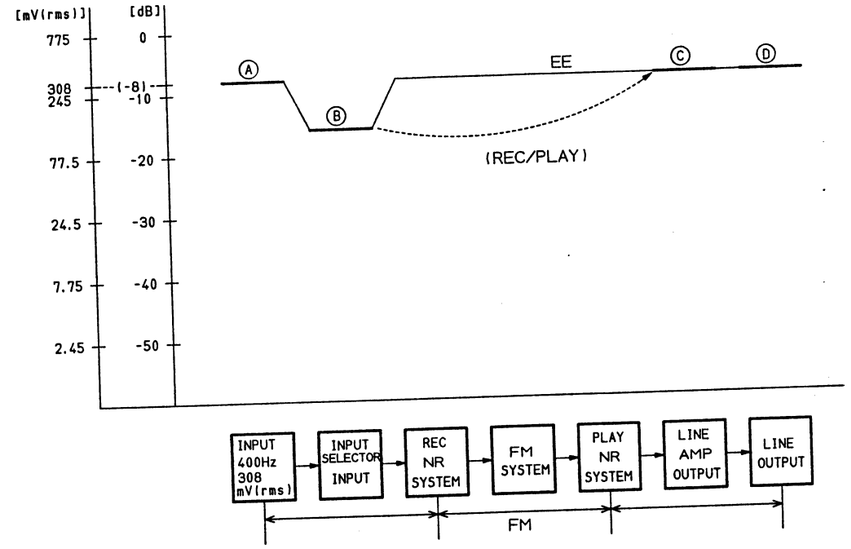
7-5. VIDEO BLOCK DIAGRAM



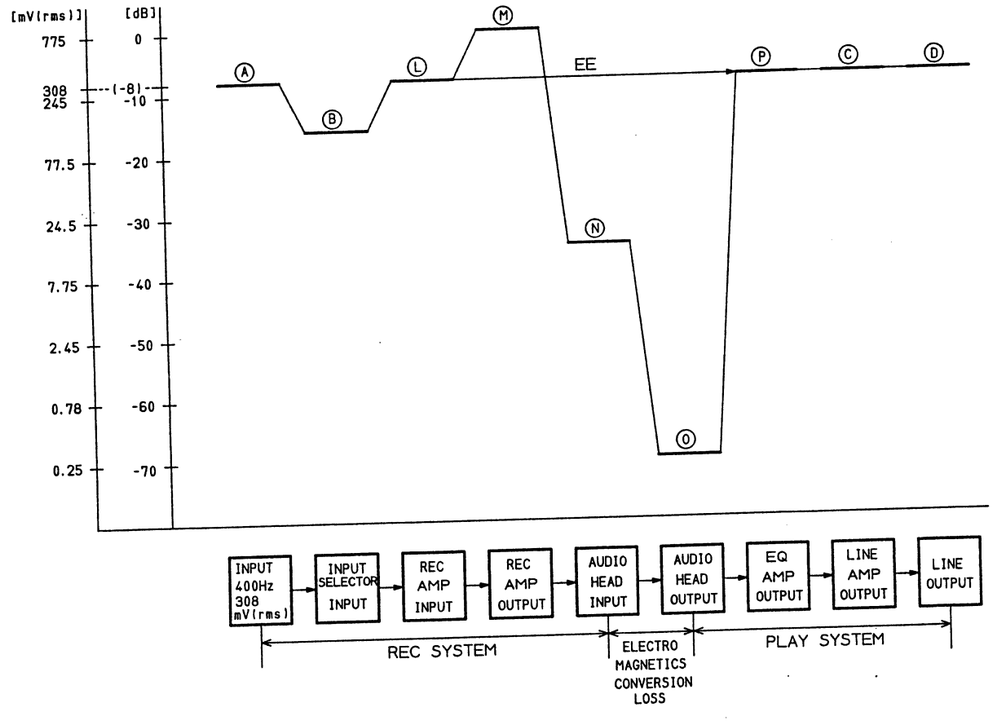
AUDIO BLOCK DIAGRAM



7-6-1. Hi-Fi Audio Level Chart



7-6-2. Conventional Audio Level Chart



8. CIRCUIT DIAGRAMS

8-1. Power Circuit Diagram

0150M POWER

V : REC
(V): PLAY
[V]: EE

BP001 ⚠ 70011176
⚠ 70010445 FP001 T1A250V
LP001 2X47mH
CP001 0.1μ 275V ⚠ 70042150
LP002 2X33μH ⚠ 70011949
CP002 47μ,385V ⚠ 70041047
CP003 2200p400V ⚠ 70051665
CP009 390p400V
RP014 2.2k
RP026 5.6k
RP027 15k
RP028 15k
RP029 15k
RP010 15k
RP011 15k
RP012 15k
RP002 0
RP015 3.9
RP022 100k
RP030 6800p
RP020 27
RP016 33
RP017 10
RP021 2.2k ⚠ 70041673
RP018 1.5 ⚠ 70041078
RP019 1.8k
RP009 100k
RP025 330k
RP024 330k
RP023 330k
DP004 1N4007
DP003 1N4007
DP002 1N4007
DP001 1N4007
DP007 BA157
DP009 IN4148
DP008 IN4148
DP005 BA158
RP001 10k
CP004 100p 1000V
CP007 10μ50V
CP008 100μ25V
CP005 10p 50V
RP008 47k
CP006 4700p
CP020 330p
TP001 BUL310XI FEEDBACK SEPARATOR

IP001 U4614B SWITCHING CONTROL IC
OVER FMAX FMIN SETDELAY PRSEC ISENS REC T VCC IREF OUT H IC GND OUT L P GND REG F
RP032 7.5k
RP031 39k
RP003 47k
RP005 22k
RP004 22k
RP007 33k
RP006 10k
CP015 470p

LP020 ⚠ 70012427
25T 41T 5T 3T 9T 16T 16T 16T 7T 3

DP041 BA157
DP042 BA157
CP041 220μ,10V
DP061 MUR115
CP061 220μ35V
RP062 1.2k
RP063 1.2k
RP061 1.2k
RP071 ⚠ 22 ⚠ 70041073
CP073 470p 400V
DP071 BAV20
LP071 33μ
CP071 47μ,50V
CP072 0.1μ
RP072 15k
CP055 470p 400V
DP051 BAV20
CP051 1μ
RP058 100
DP053
RP056 10k
RP052 18k
DP081 IN5822
LP081 6.8μ
CP081 1000μ16V
CP082 1000μ 16V
DP052 BAV20
RP053 82k
RP057 820k
RP055 3.9k
CP057 220p
CP056 0.01μ
RP054 220k

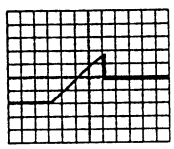
IP002 LM393
DUAL VOLTAGE COMPARATOR
CP096 100p
RP096 1k
RP093 10k
DP093 IN4148
RP097 1.5k
RP099 10k
DP094 5V6
CP094 0.1μ
DP095 MUR115
RP094 820
RP098 10k
⚠ 70042136
RP091 0.47
RP090 0
RP092 47 ⚠ 70040125
TP091 2SA1020-Y REVERSE CURRENT BIAS
TP092 BC337
RP089 56
DP089 ZPD10V
DP090 BYV28
DP091 BYV28
CP092 1000μ 25V
LP091 22μ
CP093 47μ50V

BP002
1 UH+
2 UH−
3 U5 −32VE
4 U3 +33VE
5 POWER GOOD
6 VM +20VE
7 VM +20VE
8 GND
9 GND
10 GND
11 GND
12 +14VE
13 +14VE
14 +14VE
15 +6VE
16 +6VE

TO BW001 0005M MAIN(PIF) (PAGE 3-35)

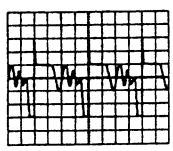
8-2. PIF Circuit Diagram

① IP001, Pin ⑪ E-4



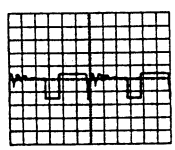
START-UP
Vcc
V:50V/div
H:10ms/div

② TP001, Collector E-5



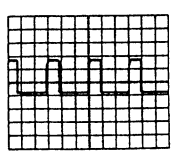
V:550Vp-p
H:40μs/div

③ IP002, Pin ⑤ F-8



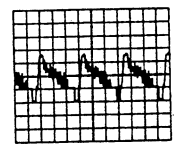
V:1V/div
H:5μs/div

④ IP002, Pin ⑦ F-8



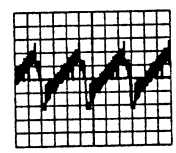
V:5V/div
H:10μs/div

① 0020M, Pin ⑥ E-7



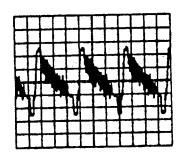
VIDEO
OUT
V:1V/div
H:20μs/div

② 0020M, Pin ① D-6



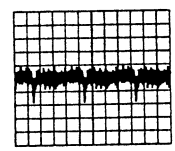
IF
V:500mV/div
H:20μs/div

③ 0010M, Pin ⑤ C-7



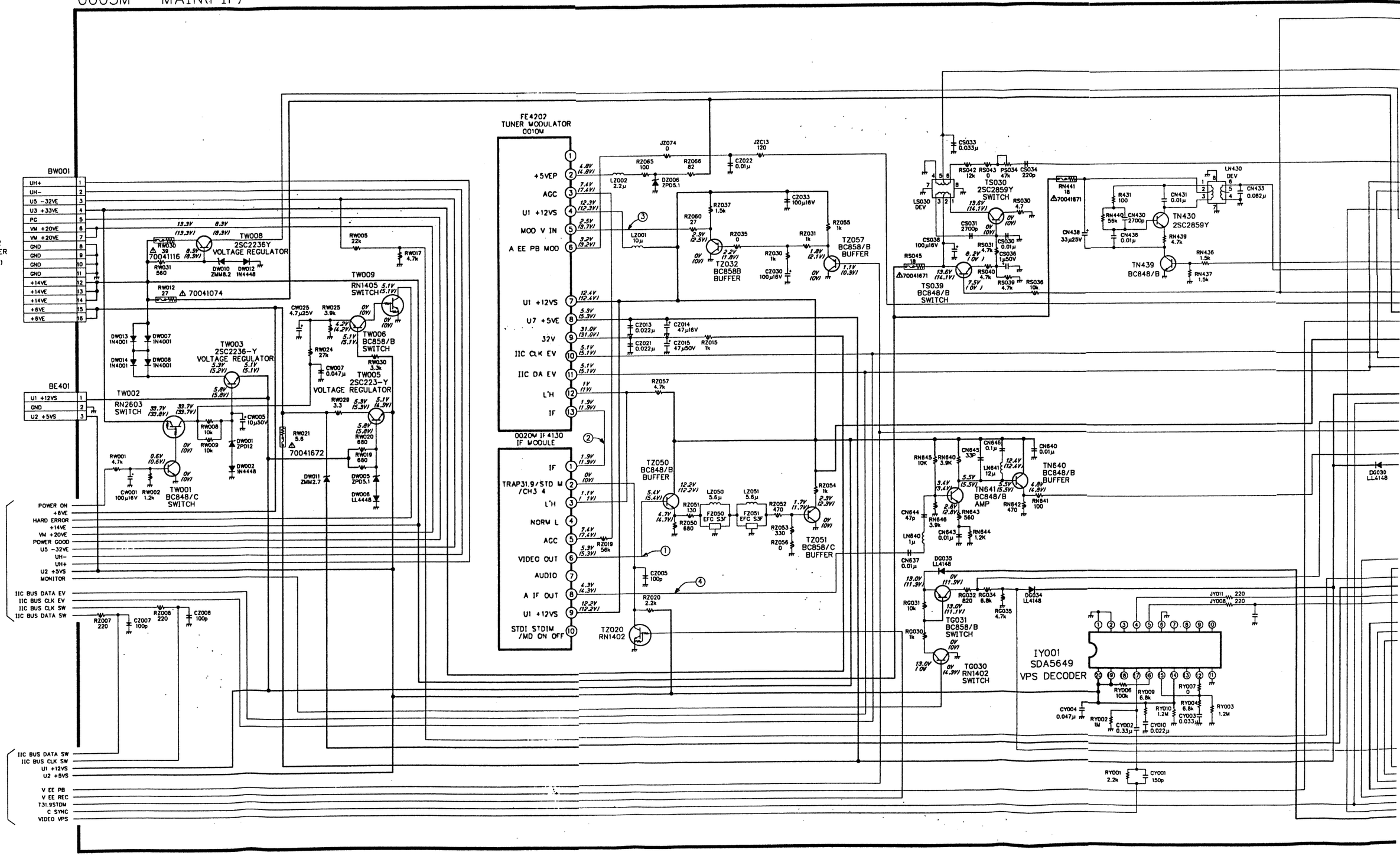
MOD V IN
V:200mV/div
H:20μs/div

④ 0020M, Pin ⑧ E-7

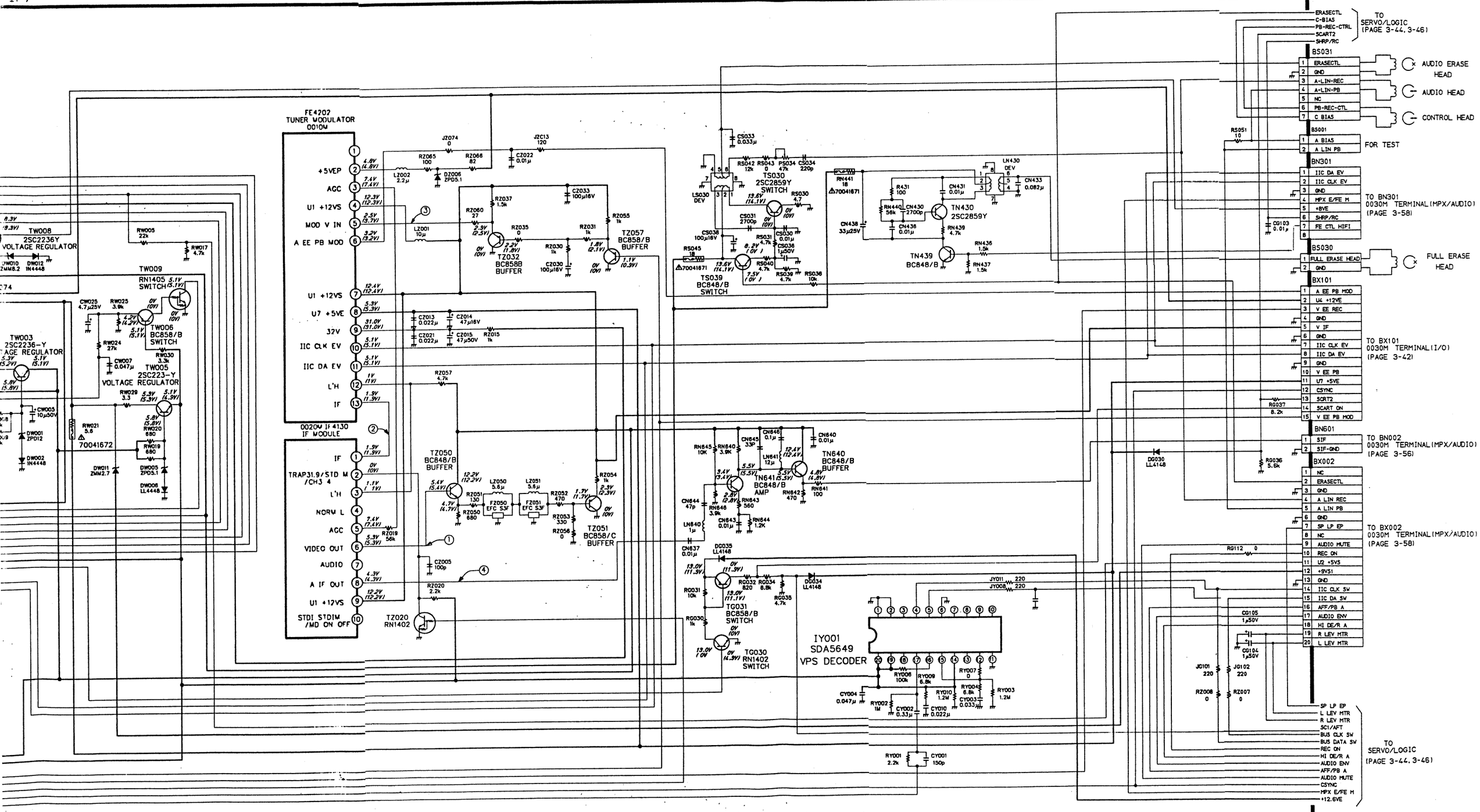


AUDIO
OUT
V:500mV/div
H:5ms/div

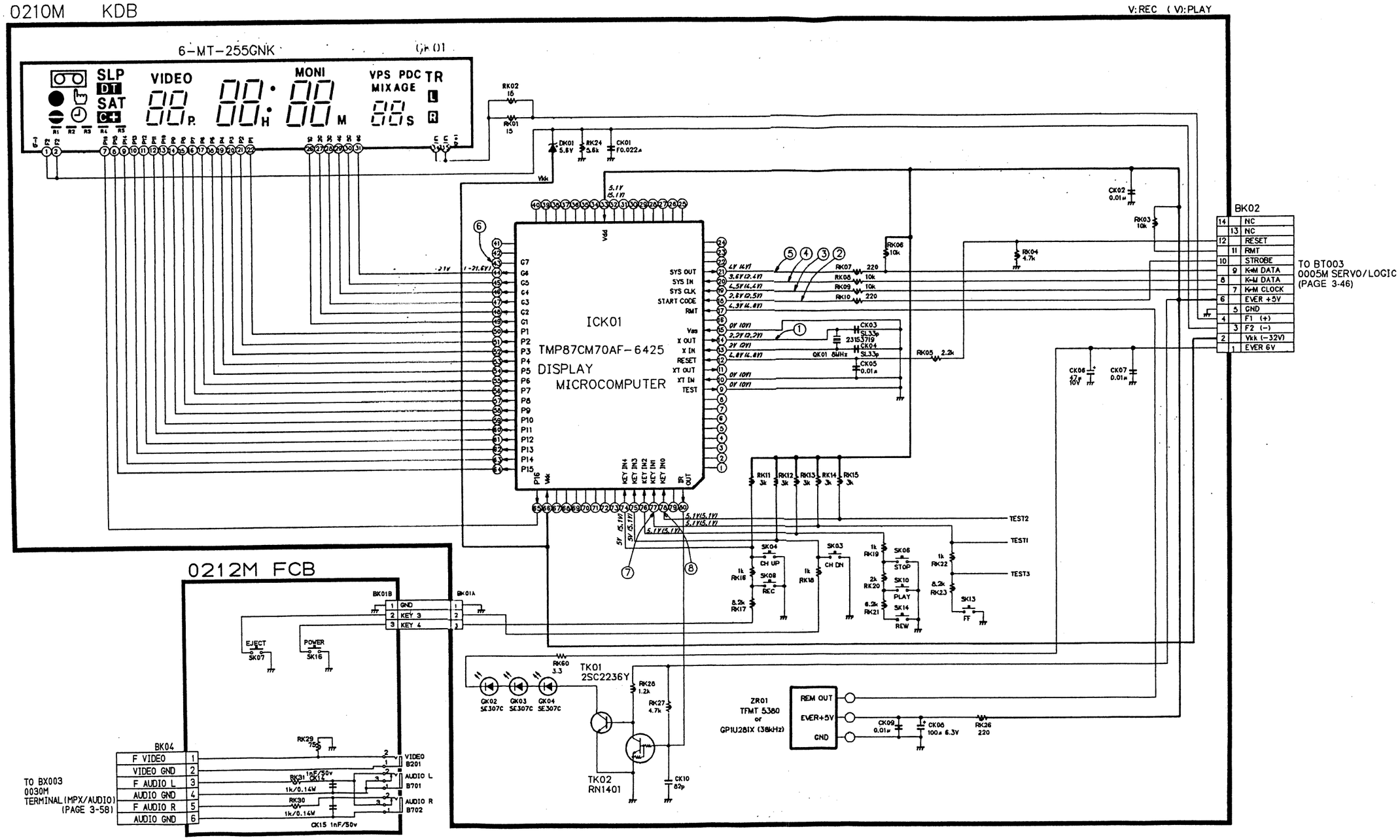
0005M MAIN(PIF)



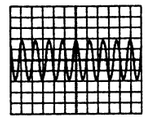
PIF)


FE4202
TUNER MODULATOR
0010M
+5VEP
AGC
U1 +12VS
MOD V IN
A EE PB MOD
U1 +12VS
U7 +5VE
32V
IIC CLK EV
IIC DA EV
L'H
IF
0020M IF 4130
IF MODULE
IF
TRAP31.9/STD M
/CH3 4
L'H
NORM L
AGC
VIDEO OUT
AUDIO
A IF OUT
U1 +12VS
STDI STDIM
/MD ON OFF
TZ032
BC858B
BUFFER
TZ057
BC858/B
BUFFER
TZ050
BC848/B
BUFFER
TZ051
BC858/C
BUFFER
TZ020
RN1402
TS030
2SC2859Y
SWITCH
TS039
BC848/B
SWITCH
TN430
2SC2859Y
TN439
BC848/B
TN640
BC848/B
BUFFER
TN641
BC848/B
AMP
TG031
BC858/B
SWITCH
TG030
RN1402
SWITCH
IY001
SDA5649
VPS DECODER
TW008
2SC2236Y
VOLTAGE REGULATOR
TW009
RN1405
SWITCH
TW006
BC858/B
SWITCH
TW005
2SC223-Y
VOLTAGE REGULATOR
TW003
2SC2236-Y
AGE REGULATOR
70041672
70041671
ERASECTL
C-BIAS
PB-REC-CTRL
SCART2
SHRP/RC
TO
SERVO/LOGIC
(PAGE 3-44, 3-46)
BS031
ERASECTL
GND
A-LIN-REC
A-LIN-PB
NC
PB-REC-CTL
C BIAS
AUDIO ERASE
HEAD
AUDIO HEAD
CONTROL HEAD
BS001
A BIAS
A LIN PB
FOR TEST
BN301
IIC DA EV
IIC CLK EV
GND
MPX E/FE M
+8VE
SHRP/RC
FE CTL HIFI
TO BN301
0030M TERMINAL(MPX/AUDIO)
(PAGE 3-58)
BS030
FULL ERASE HEAD
GND
FULL ERASE
HEAD
BX101
A EE PB MOD
U4 +12VE
V EE REC
GND
V IF
GND
IIC CLK EV
IIC DA EV
GND
V EE PB
U7 +5VE
CSYNC
SCRT2
SCART ON
V EE PB MOD
TO BX101
0030M TERMINAL(I/O)
(PAGE 3-42)
BN601
SIF
SIF-GND
TO BN002
0030M TERMINAL(MPX/AUDIO)
(PAGE 3-56)
BX002
NC
ERASECTL
GND
A LIN REC
A LIN PB
GND
SP LP EP
NC
AUDIO MUTE
REC ON
U2 +5VS
+9VS1
GND
IIC CLK SW
IIC DA SW
AFF/PB A
AUDIO ENV
HI DE/R A
R LEV MTR
L LEV MTR
TO BX002
0030M TERMINAL(MPX/AUDIO)
(PAGE 3-58)
SP LP EP
L LEV MTR
R LEV MTR
SC1/AFT
BUS CLK SW
BUS DATA SW
REC ON
HI DE/R A
AUDIO ENV
AFF/PB A
AUDIO MUTE
CSYNC
MPX E/FE M
+12.6VE
TO
SERVO/LOGIC
(PAGE 3-44, 3-46)

8-3. KDB Circuit Diagram

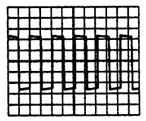


① ICK01,Pin ⑭ D-7



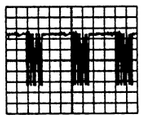
X-OUT
V:1V/div
H:0.1μs/div

② ICK01,Pin ⑱ C-7



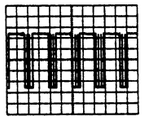
START
CODE
V:1V/div
H:10ms/div

③ ICK01,Pin ⑲ C-7



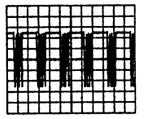
CLOCK
V:1V/div
H:5ms/div

④ ICK01, Pin ⑳ C-7



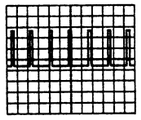
DATA IN
V:1V/div
H:10μs/div

⑤ ICK01, Pin ㉑ C-7



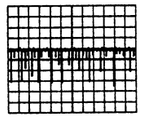
DATA OUT
V:1V/div
H:10ms/div

⑥ ICK01, Pin ㊸ C-4



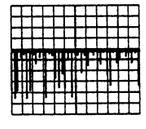
V:1V/div
H:500μs/div

⑦ ICK01, Pin ㊼ E-5



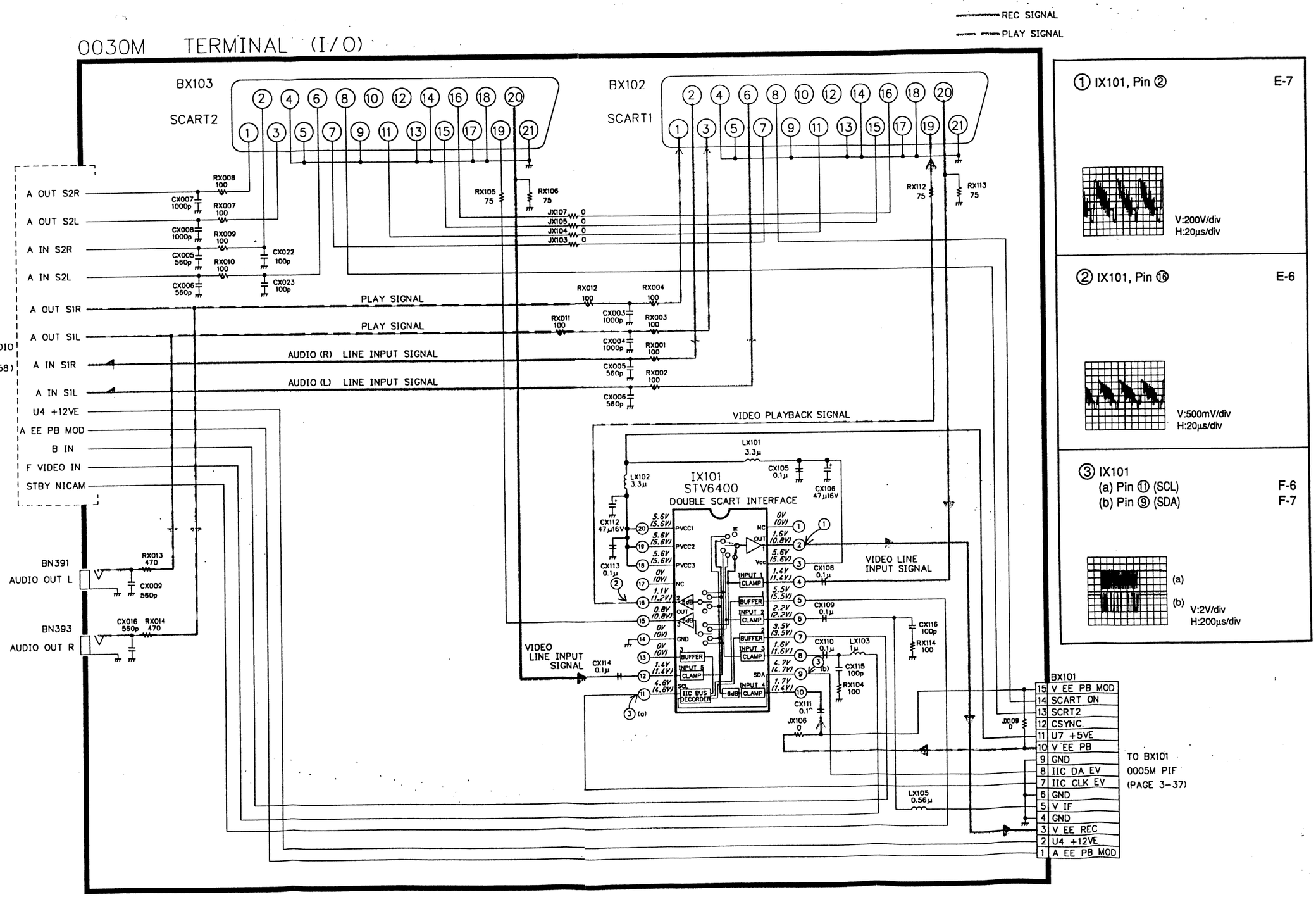
V:200mV/div
H:5ms/div

⑧ ICK01, Pin ㊽ E-6



V:200mV/div
H:5ms/div

8-4. Terminal (I/O) Circuit Diagram



① IX101, Pin ② E-7

V:200V/div
H:20µs/div

② IX101, Pin ⑯ E-6

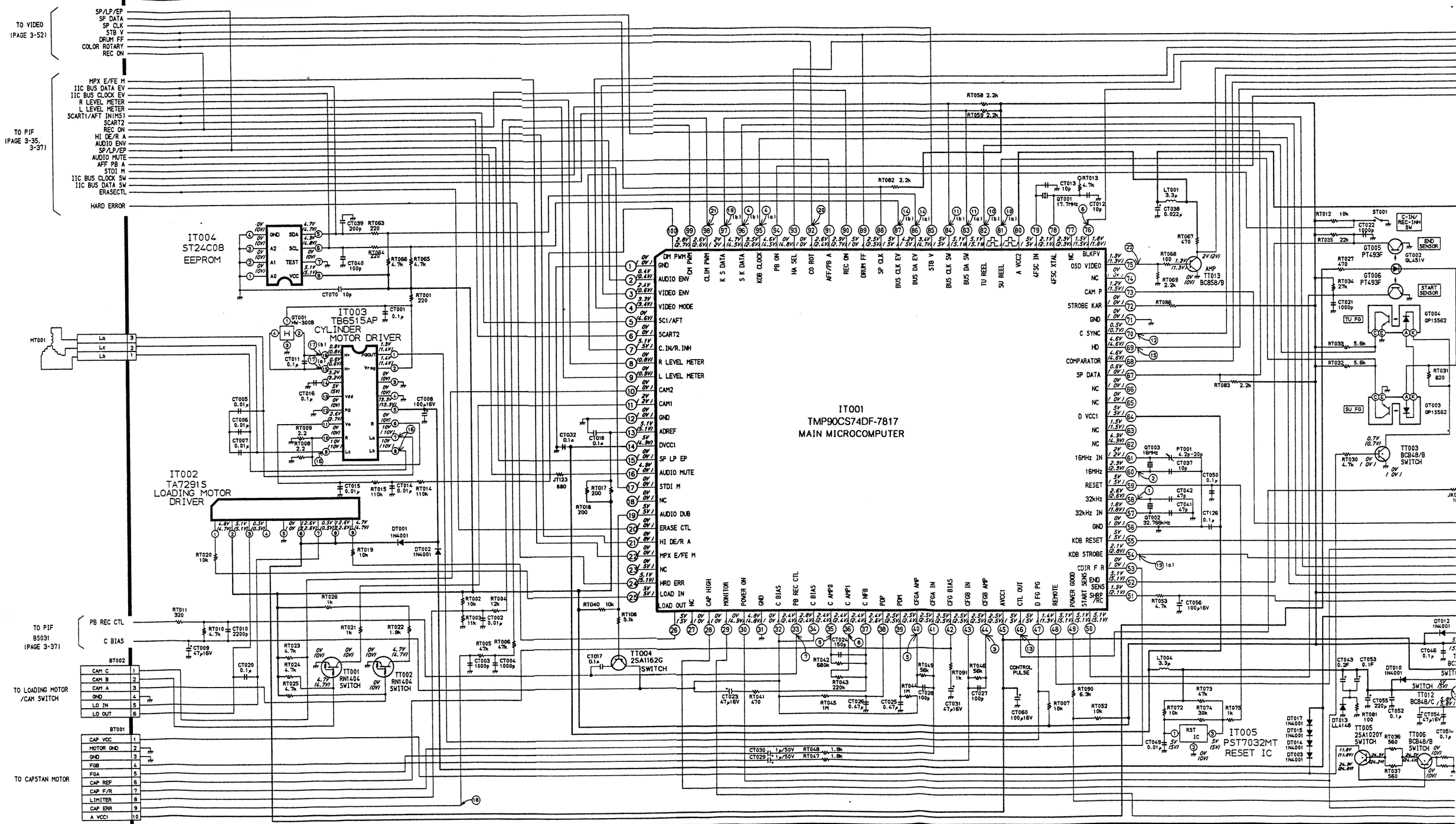
V:500mV/div
H:20µs/div

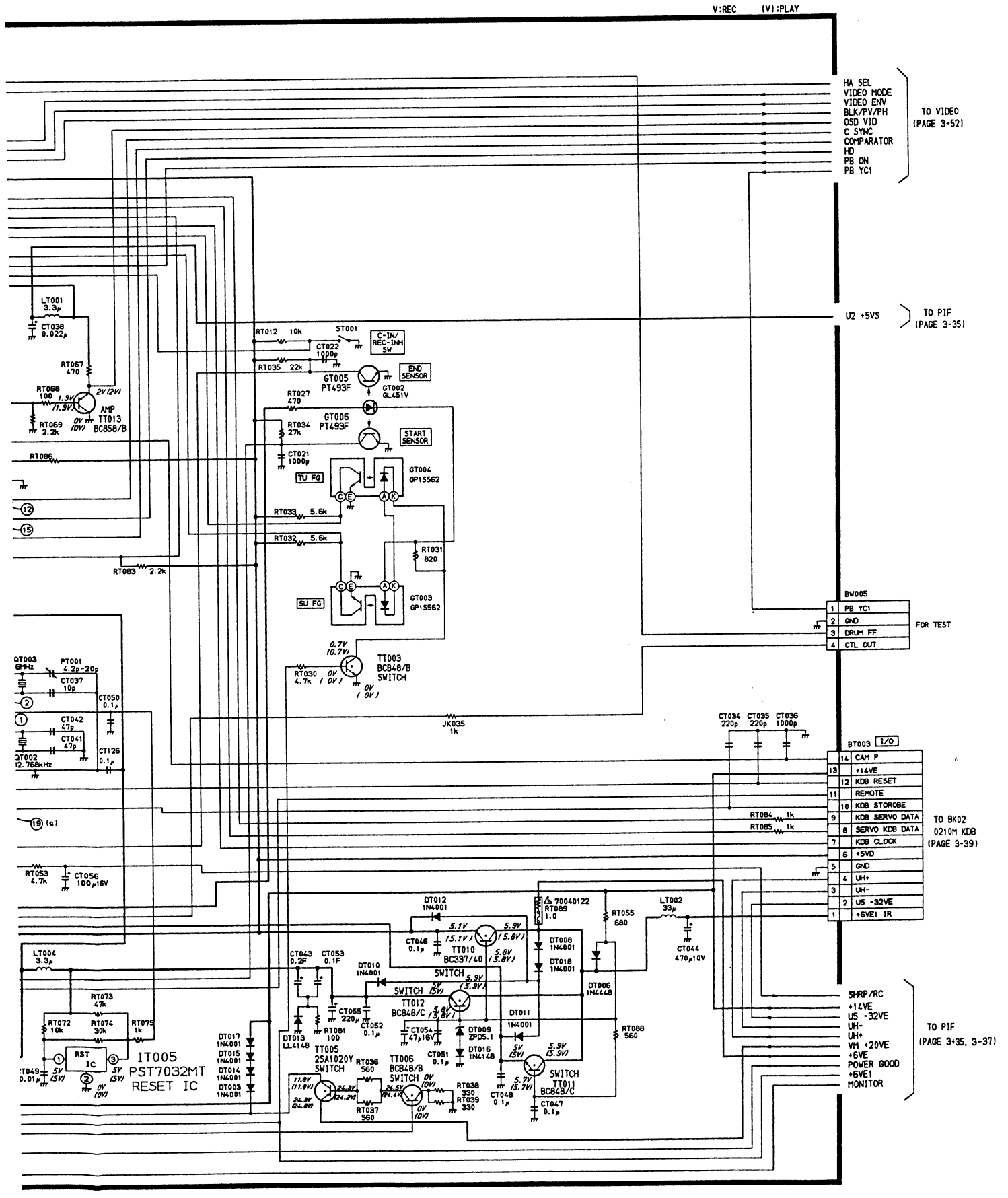
③ IX101
(a) Pin ⑪ (SCL) F-6
(b) Pin ⑨ (SDA) F-7

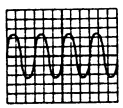
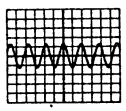
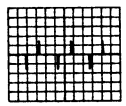
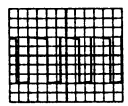
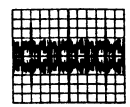
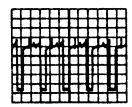
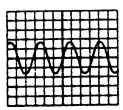
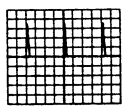
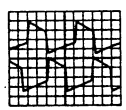
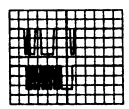
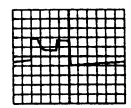
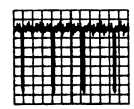
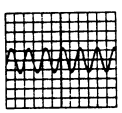
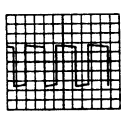
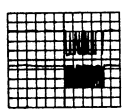
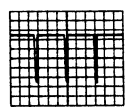
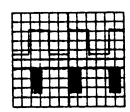
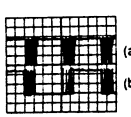
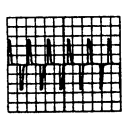
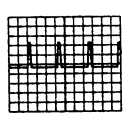
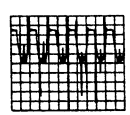
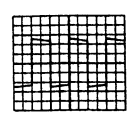
(a)
(b)
V:2V/div
H:200µs/div

8-5. SERVO/LOGIC CIRCUIT DIAGRAM

0005M MAIN(SERVO/LOGIC)



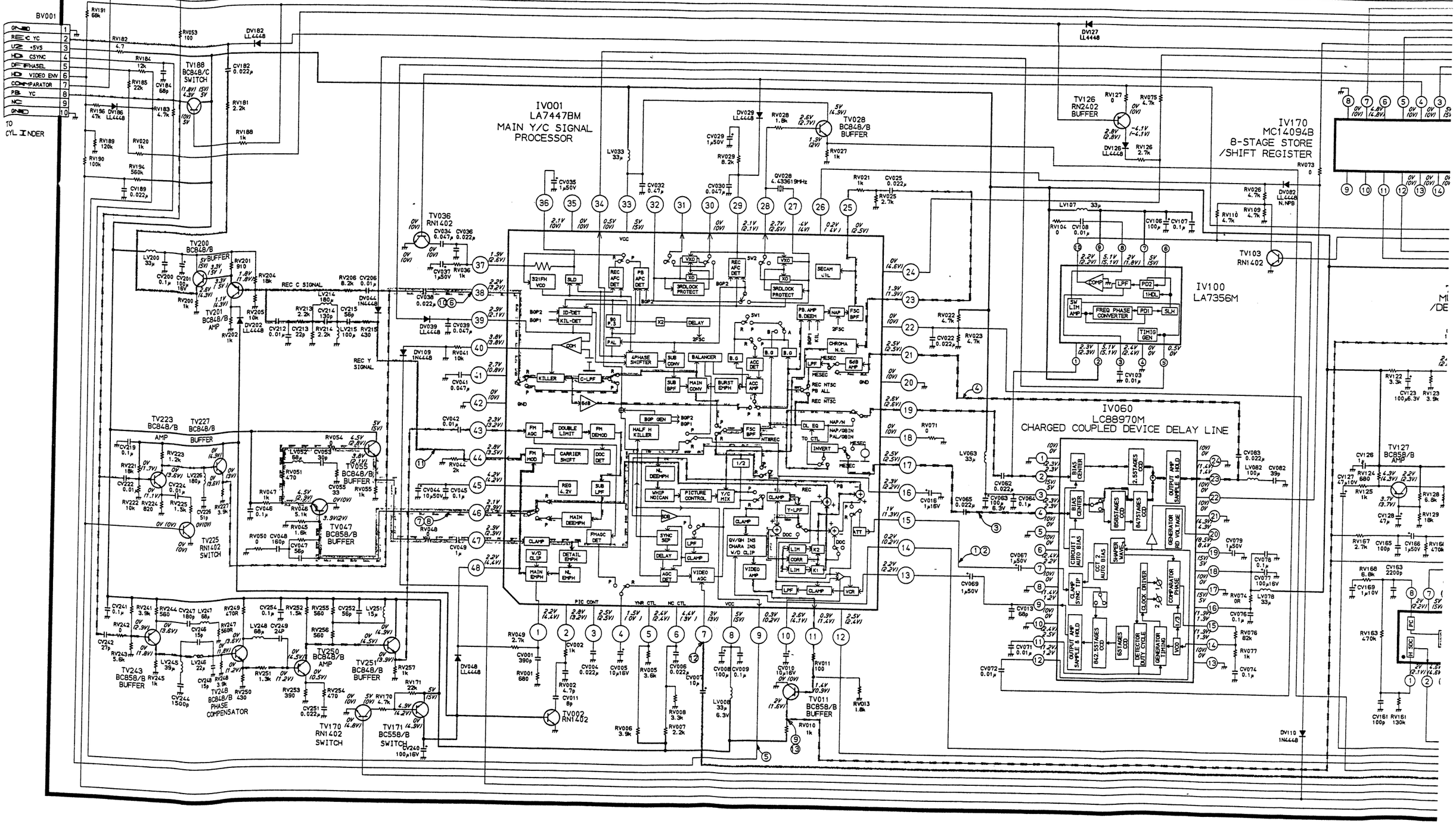

V:REC (V):PLAY
HA SEL
VIDEO MODE
VIDEO ENV
BLK/PV/PH
OSD VID
C SYNC
COMPARATOR
HD
PB ON
PB YC1
TO VIDEO (PAGE 3-52)
U2 +5VS
TO PIF (PAGE 3-35)
BW005
PB YC1
GND
DRUM FF
CTL OUT
FOR TEST
BT003 I/O
CAM P
+14VE
KDB RESET
REMOTE
KDB STOROBE
KDB SERVO DATA
SERVO KDB DATA
KDB CLOCK
+5VD
GND
UH+
UH-
US -32VE
+6VE1 IR
TO BK02 0210M KDB (PAGE 3-39)
SHRP/RC
+14VE
US -32VE
UH-
UH+
VM +20VE
+6VE
POWER GOOD
+6VE1
MONITOR
TO PIF (PAGE 3-35, 3-37)
IT005 PST7032MT RESET IC
C-IN/ REC-INH SW
END SENSOR
START SENSOR
TU FG
SU FG
SWITCH
AMP
RST IC

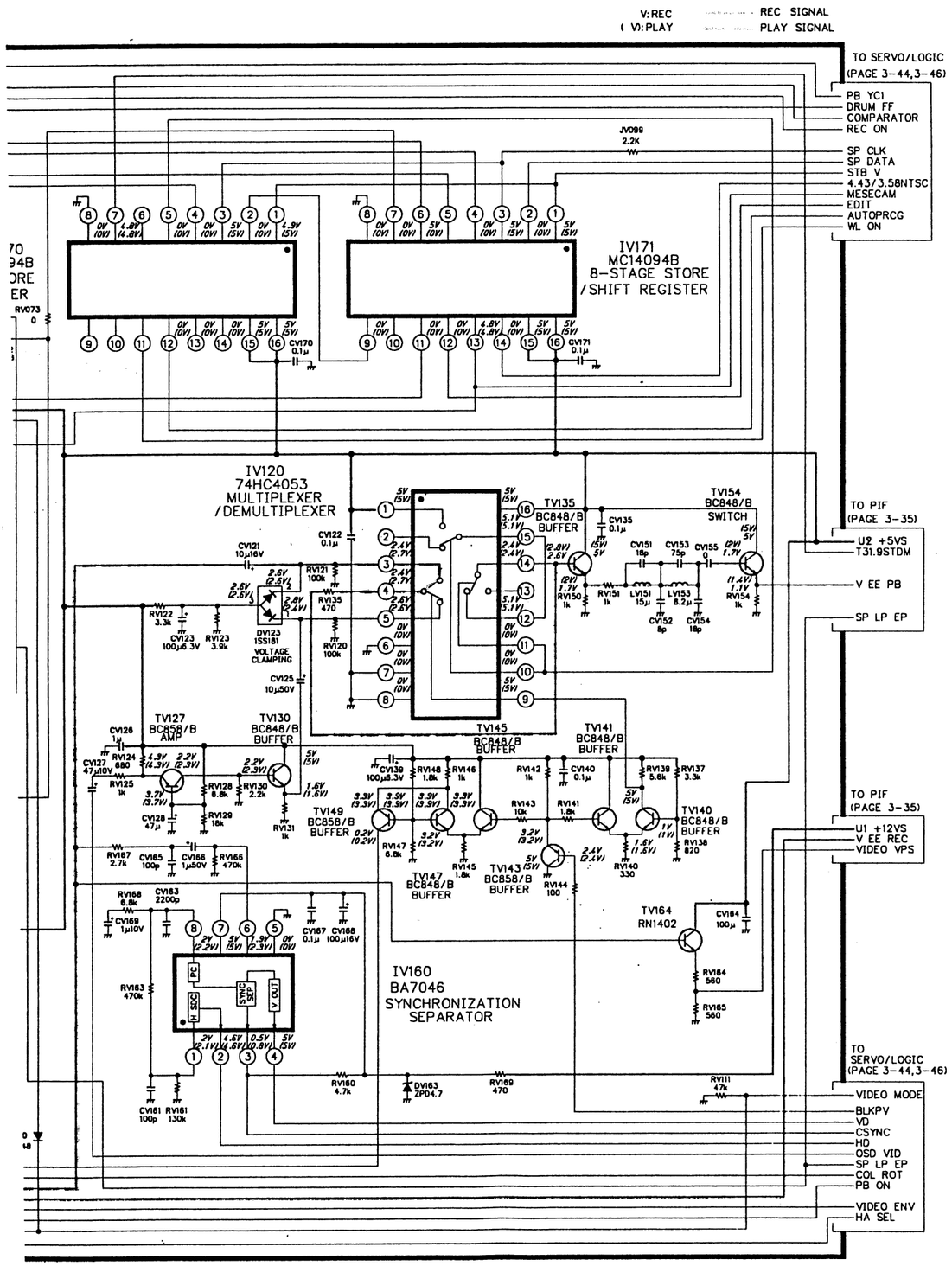
① IT001, Pin ㊽ E-10  V:2V/div H:10μs/div	⑤ IT001, Pin ㊵ F-8  CFGA,AMP SP PLAY V:500mV/div H:500μs/div	⑨ IT001, Pin ㊺ F-7  C.AMP0 PLAY (SP) V:1V/div H:10ms/div	⑬ IT001, Pin ㊻ F-9  CTL OUT V:1V/div H:10ms/div	⑰ IT003 (a) Pin ⑮ D-3 (b) Pin ⑯ D-3  (b) (a) V:100mV/div H:10ms/div	㉑ IT001, Pin ㊽ C-6  CAP V:1V/div H:10μs/div
② IT001,Pin ㊿ E-10  V:2V/div H:0.02μs/div	⑥ IT001, Pin ㊻ C-9  PV/PH/BLK STILL V:1V/div H:10ms/div	⑩ IT001 (a) Pin ㊶ SP PLAY C-9 (b) Pin ㊷ SP PLAY C-9  (a) (b) V:2V/div H:100ms/div	⑭ IT001 (a) Pin ㊺ SP PLAY C-8 (b) Pin ㊼ C-8  (a) (b) V:2V/div H:20μs/div	⑱ BT001, Pin ⑨ G-4  CAP ERR SP SLOW V:2V/div H:20ms/div	㉒ IT001, Pin ㊺ C-10  OSD VIDEO V:1V/div H:20μs/div
③ IT001, Pin ㊹ F-9  CPGB.AMP SP PLAY V:500mV/div H:500μs/div	⑦ IT001, Pin ㊸ F-7  R/P CTL REC V:1V/div H:10ms/div	⑪ IT001 (a) Pin ㊸ C-8 (b) Pin ㊹ C-8  (a) (b) V:2V/div H:200μV/div	⑮ IT001, Pin ㊾ D-10  HD V:1V/div H:20μs/div	⑲ IT001 (a) Pin ㊿ (KDB STROBE) E-10 (b) Pin ㊼ (K→S DATA) C-6  (a) (b) V:2mV/div H:5ms/div	
④ IT001 (a) Pin ㊺ (KDB CLOCK) C-7 (b) Pin ㊻ (S K DATA) C-7  (a) (b) V:2V/div H:5ms/div	⑧ IT001, Pin ㊺ F-7  C.AMP1 FF (SP) V:1V/div H:500μs/div	⑫ IT001, Pin ㊿ D-10  C SYNC V:2V/div H:20μs/div	⑯ IT003 Pin ⑦, ⑧ D-4 Pin ⑨ D-3  V:2V/div H:5ms/div	⑳ IT001, Pin ㊷ C-7  COLOR ROTARY (SP) V:1V/div H:10ms/div	

3-49

8-6. VIDEO CIRCUIT DIAGRAM

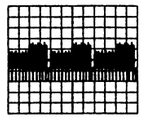
0005M MAIN(VIDEO)





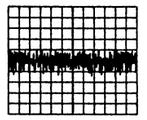
3-52

① IV001, Pin ⑮ E-9



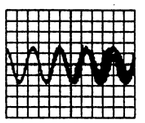
PLAY
V:100mV/div
H:5ms/div

⑥ IV001, Pin ㊳ D-4



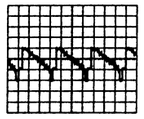
PLAY
V:100mV/div
H:10ms/div

⑪ IV001, Pin ㊹ E-4



REC (SP)
V:200mV/div
H:0.1µs/div

② IV001, Pin ⑮ E-9

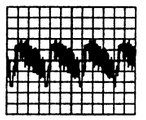


PLAY
V:100mV/div
H:20µs/div

⑦ IV001, Pin ㊻ E-4

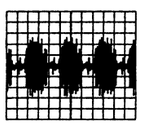
PLAY
V:100mV/div
H:50µs/div

⑫ IV001, Pin ⑦ F-6



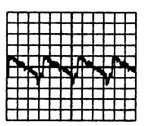
REC
V:100mV/div
H:20µs/div

③ IV001, Pin ⑰ E-9



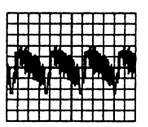
PLAY
V:50mV/div
H:20µs/div

⑧ IV001, Pin ㊻ E-4



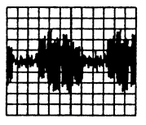
PLAY
V:200mV/div
H:20µs/div

⑬ TV011, Emitter (75Ω load) G-7



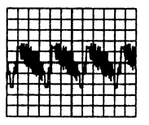
REC
V:500mV/div
H:20µs/div

④ IV001, Pin ㉑ D-9



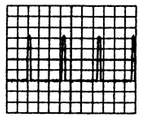
PLAY
V:50mV/div
H:10µs/div

⑨ TV011, Emitter (75Ω load) G-7



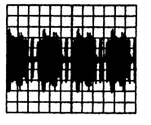
PLAY
V:50mV/div
H:20µs/div

⑤ IV001, Pin ⑨ G-7



PLAY
V:1V/div
H:20µs/div

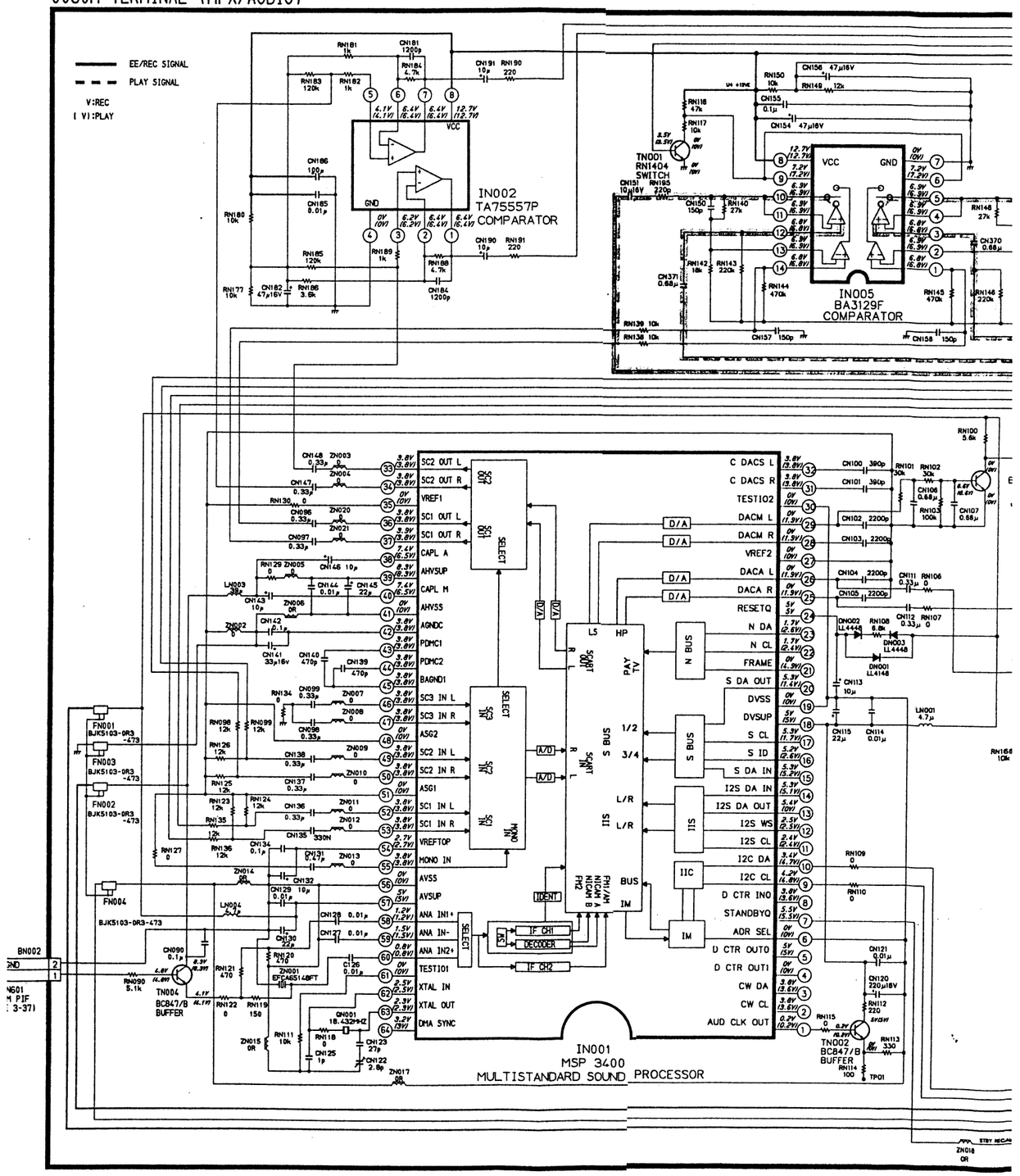
⑩ IV001, Pin ㊳ D-4

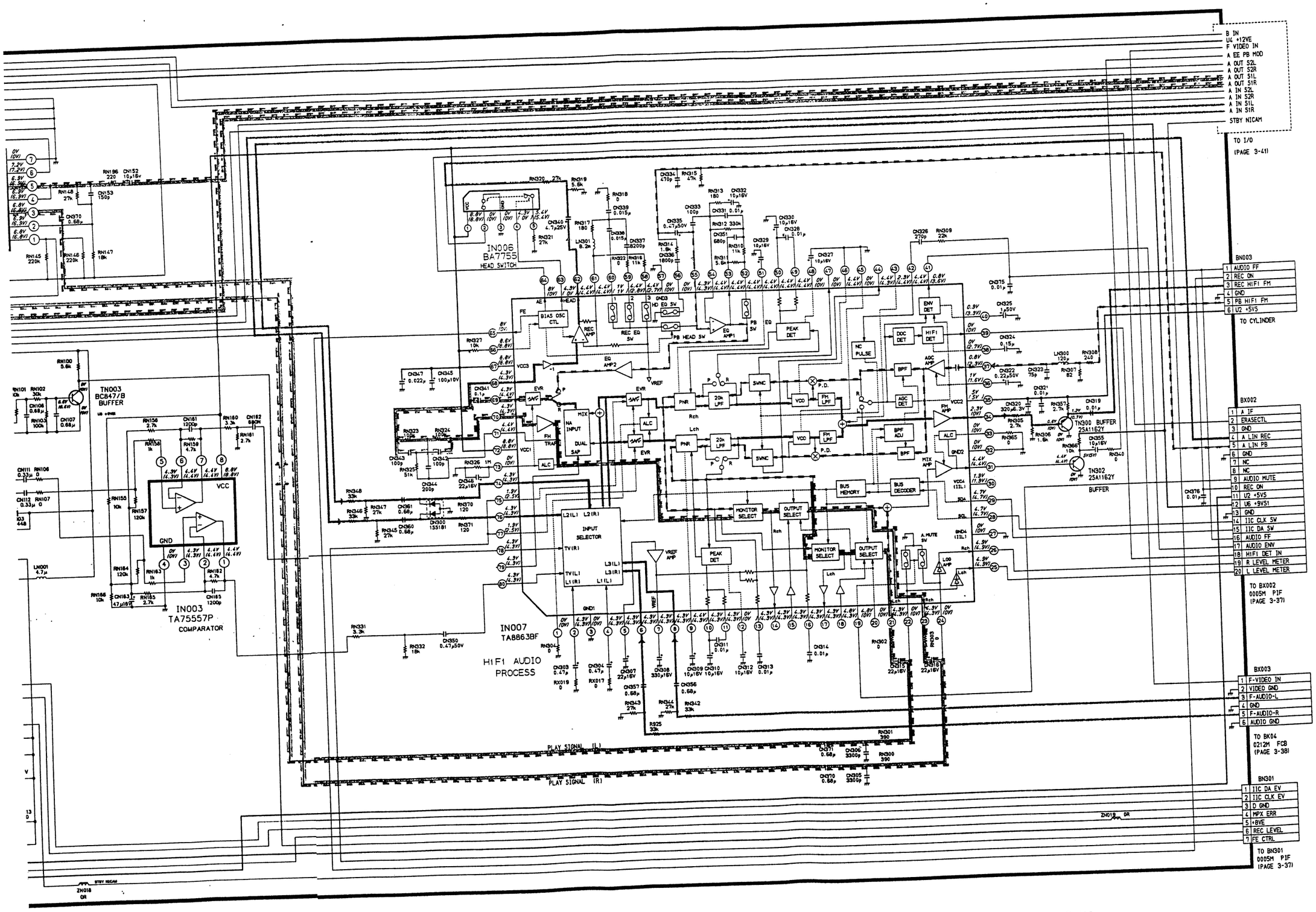


REC (SP)
V:50mV/div
H:20µs/div

7. AUDIO CIRCUIT DIAGRAM

0030M TERMINAL (MPX/AUDIO)




IN006
BA7755
HEAD SWITCH
TN003
BC847/B
BUFFER
IN003
TA75557P
COMPARATOR
IN007
TA8863BF
HIFI AUDIO
PROCESS
INPUT
SELECTOR
TN300 BUFFER
25A1162Y
TN302
25A1162Y
BUFFER
B IN
U4 +12VE
F VIDEO IN
A EE PB MOD
A OUT S2L
A OUT S2R
A OUT S1L
A OUT S1R
A IN S2L
A IN S2R
A IN S1L
A IN S1R
STBY NICAM
TO I/O
(PAGE 3-41)
BN003
1 AUDIO FF
2 REC ON
3 REC HIFI FM
4 GND
5 PB HIFI FM
6 U2 +5V5
TO CYLINDER
BX002
1 A IF
2 ERASECTL
3 GND
4 A LIN REC
5 A LIN PB
6 GND
7 NC
8 NC
9 AUDIO MUTE
10 REC ON
11 U2 +5V5
12 U6 +9V5
13 GND
14 IIC CLK SW
15 IIC DA SW
16 AUDIO FF
17 AUDIO ENV
18 HIFI DET IN
19 R LEVEL METER
20 L LEVEL METER
TO BX002
0005M PIF
(PAGE 3-37)
BX003
1 F-VIDEO IN
2 VIDEO GND
3 F-AUDIO-L
4 GND
5 F-AUDIO-R
6 AUDIO GND
TO BK04
0212M FCB
(PAGE 3-38)
BN301
1 IIC DA EV
2 IIC CLK EV
3 D GND
4 MPX ERR
5 +8VE
6 REC LEVEL
7 FE CTRL
TO BN301
0005M PIF
(PAGE 3-37)
PLAY SIGNAL (L)
PLAY SIGNAL (R)
ZN018 OR
STBY NICAM
ZN018 OR

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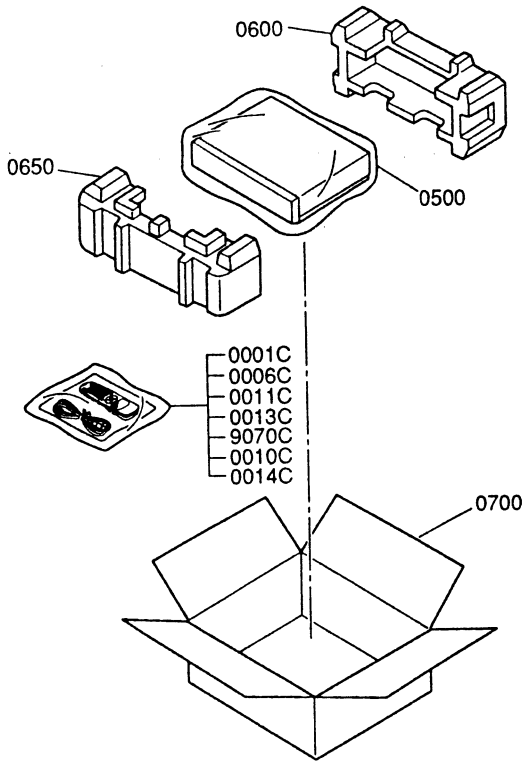
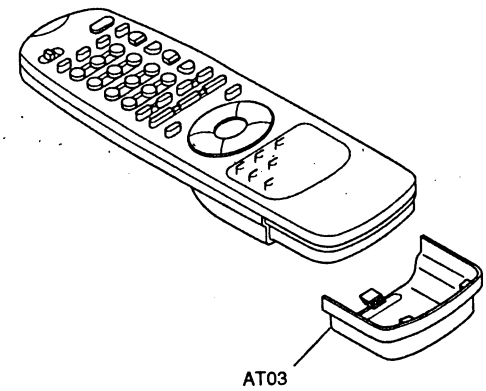
4. EXPLODED VIEWS

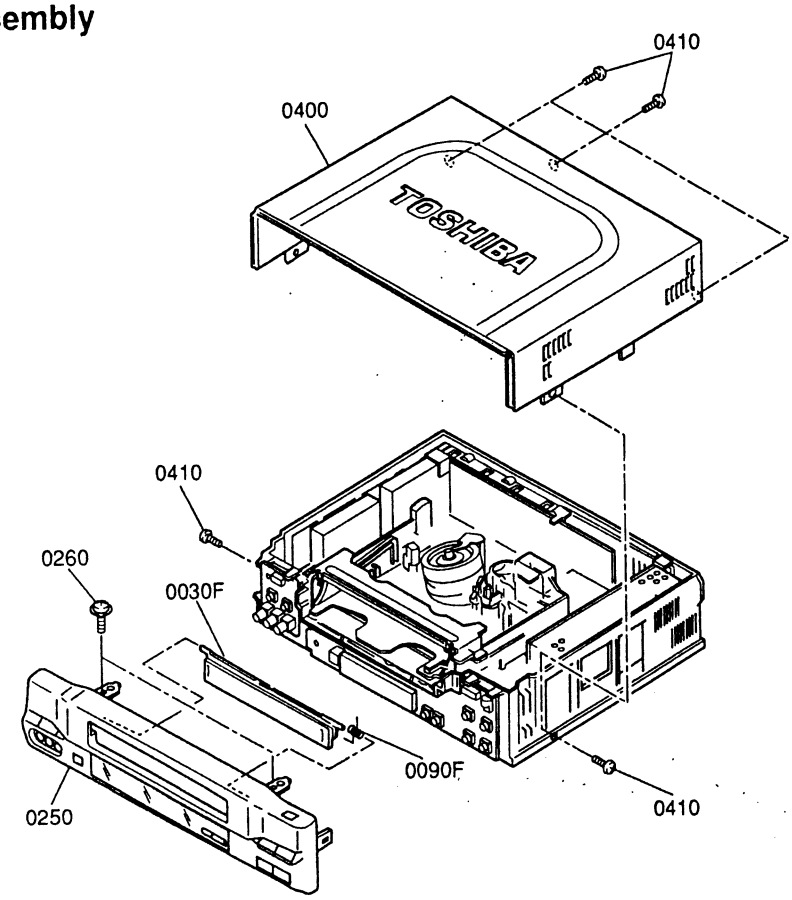
4-1. Packing Assembly



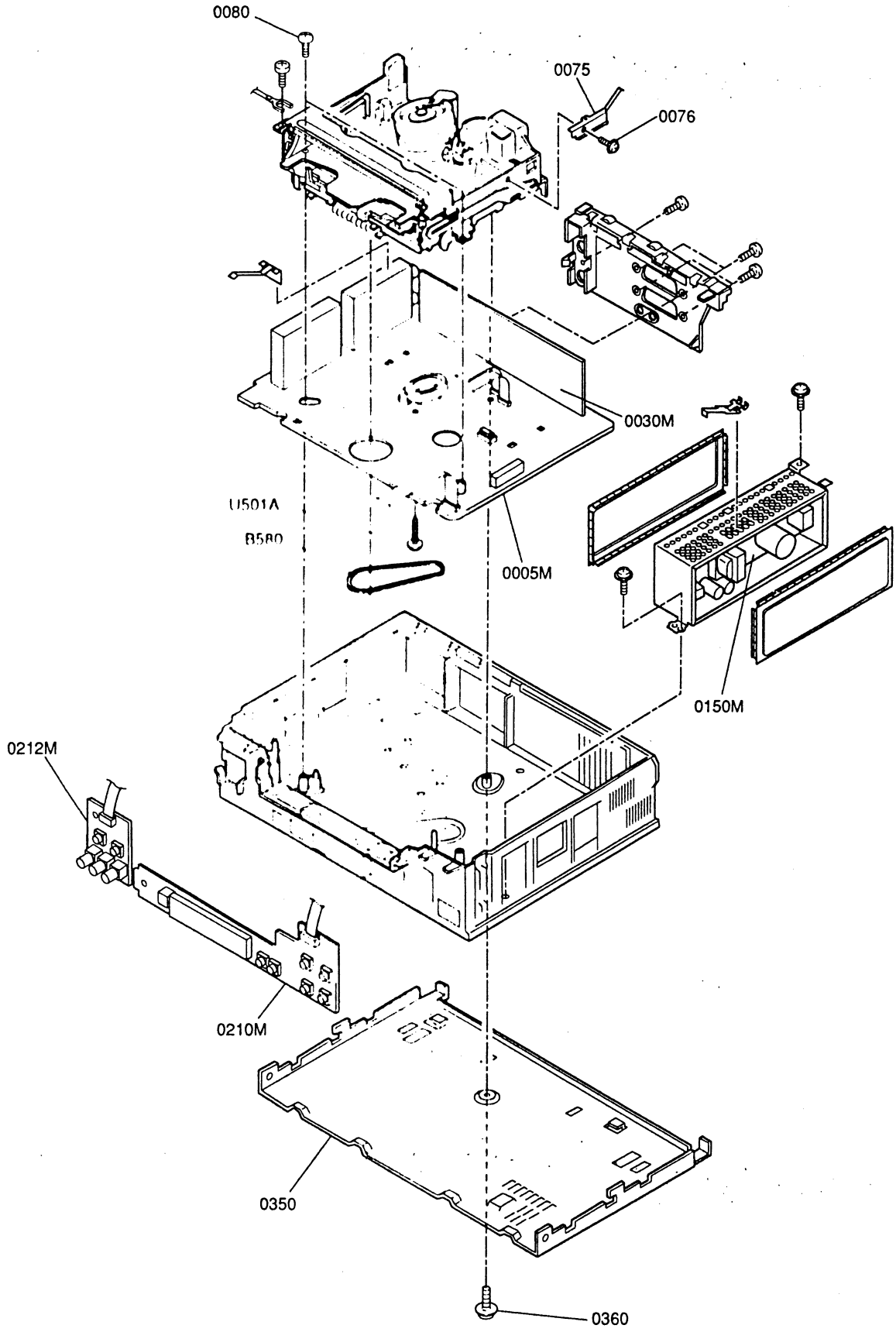
4-2. Remote Control Unit



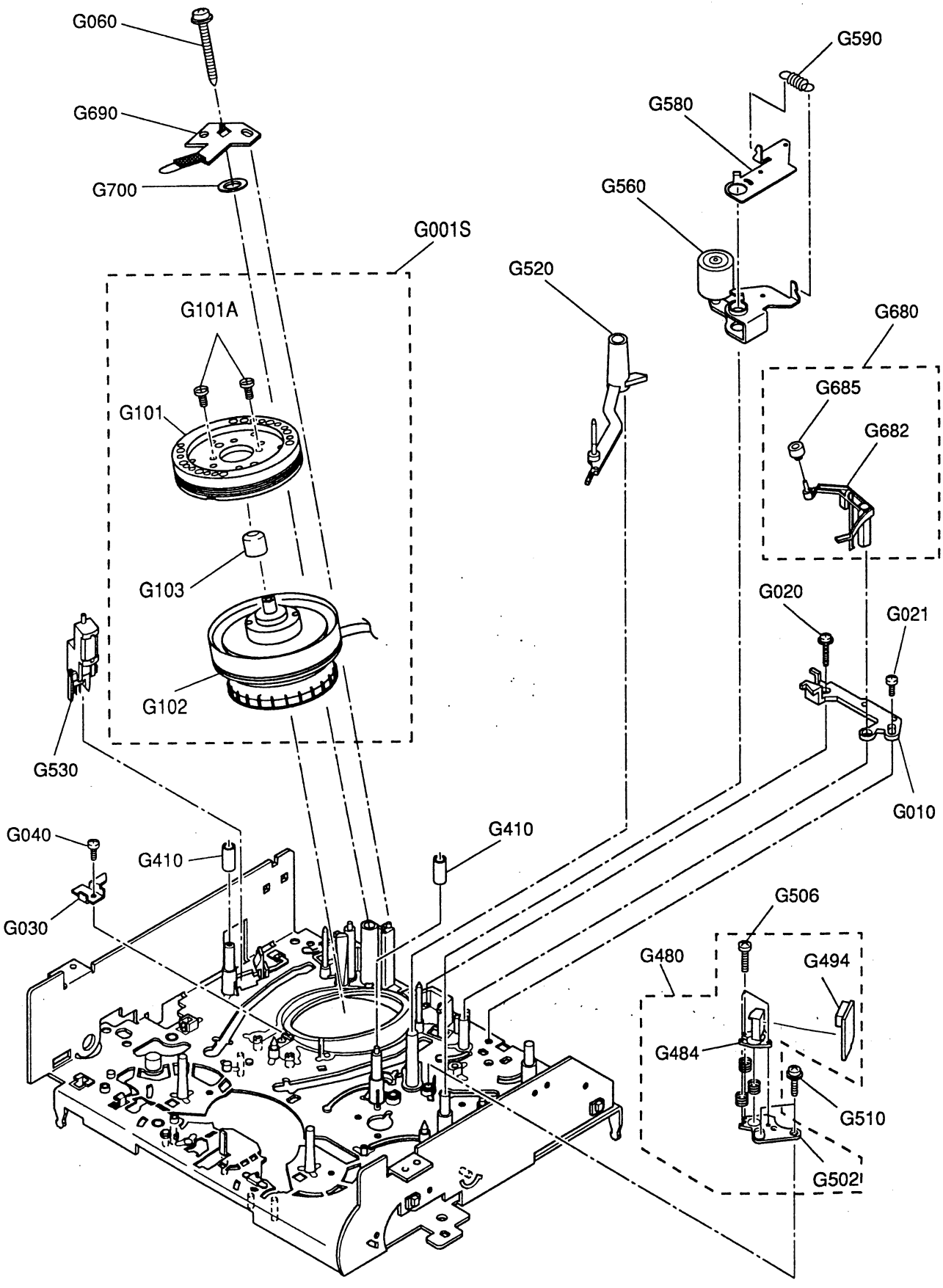
4-3. Cabinet Assembly



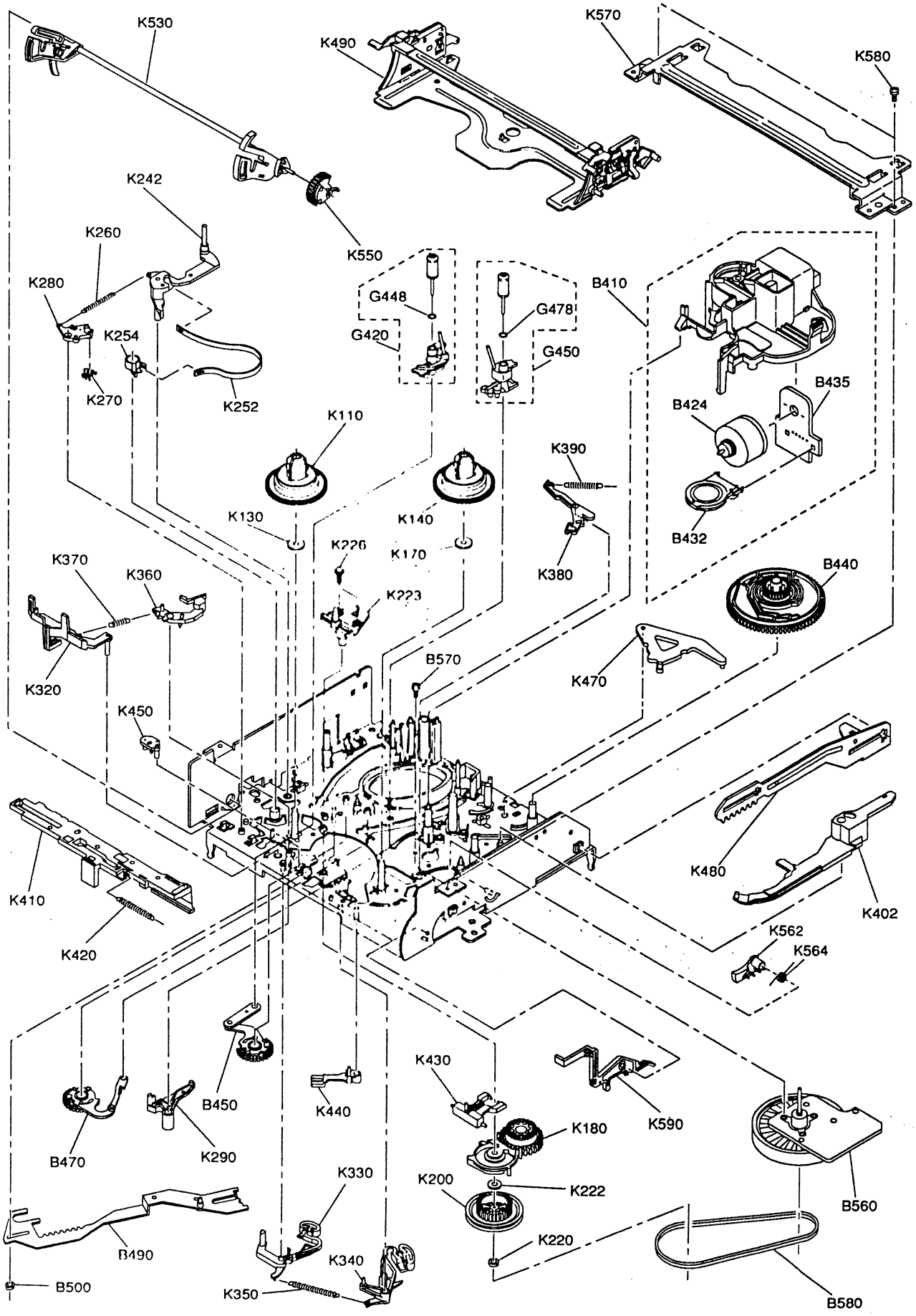
4-4. Chassis Assembly



4-5. Mechanism Assembly (1)



4-6. Mechanism Assembly (2)



5. PARTS LIST

LOCATION NUMBER	PART NUMBER	DESCRIPTION
		- MECHANICAL PARTS -
⚠0001C	70061685	Owners Manual German
0010C	70012582	Remote Control Unit
0013C	70011442	Cable
⚠0014C	70011387	Mains Cord
0030F	70051822	Cassette Door
0090F	70051372	Spring
⚠0250	70051784	Front Panel
⚠0350	70051141	Bottom Plate
⚠0400	70051620	Top Cover
⚠0450	70975319	Label
0600	70061500	Packing(Rear)
0650	70061499	Packing(Front)
0700	70917888	Case
9070C	70061702	Quick Reference
AT03	70108916	Case, Battery
B410	70031394	Loading Drive Assy
B424	70031396	Loading Motor Sub Assy
B432	70031401	Cam Switch
B435	70031402	Loading Drive Unit
B440	70051147	Cam Gear
B450	70031404	S Loading Assy
B470	70031408	T Loading Assy
B490	70031412	Loading Slider Assy
B560	70031498	Capstan Motor Assy
B570	70070028	Screw, 2.6x6mm
B580	70031442	Reel Belt
G001S	70031694	Cylinder Assy
G010	70031444	Plate(Cylinder)
G020	70031643	Screw 2.6x5mm
G021	70031644	Screw 2.6x5mm
G030	70031445	Plate(Cylinder)
G040	70031644	Screw 2.6x5mm
G060	70031449	Screw
G101	70031695	Upper Cylinder Assy
G101A	70031521	Screw
G102	70031696	Lower Cylinder Assy
G103	70031683	Ground Cap Assy
G410	70031348	Guide Sleeve
G420	70031349	S Slider Assy
G448	70031505	O Ring
G450	70031360	T Slider Assy
G480	70031512	ACE Head Assy
G484	70031511	ACE Sub Base Assy
G504	70031508	Spring
G520	70031370	No.9 Guide Lever Assy
G530	70031443	FE Head
G560	70031384	Pinch Lever Assy
G580	70031390	Pinch Drive Assy
G590	70031392	Spring
G680	70031493	Cleaner Lever Assy
G690	70031540	Ground Brush
K110	70031328	S Reel Assy
K130	70031334	Washer
K140	70031335	T Reel Assy
K170	70031334	Washer
K180	70031339	Idle Arm Assy
K200	70031345	Center Gear Pully
K220	70031503	Washer
K222	70031527	Washer
K223	70031454	Center Post Assy
K242	70031374	Tension Lever Sub Assy
K252	70031376	Band Brake Sub Assy
K254	70031377	Band Holder
K260	70031660	Spring
K270	70031379	Hook Lever
K280	70031380	Hook Lever
K290	*70031381*	*Tension Drive Lever*
K320	70031466	Rec Inhibit Lever
K330	70031420	S Main Brake Assy
K340	70031421	T Main Brake Assy
K350	70031422	Spring
K360	70031469	S Soft Brake Lever
K370	70031423	Spring
K380	70031424	T Soft Brake Assy
K390	70031426	Spring
K402	70031471	Drive Lever
K410	70031427	Cam Slider
K420	70031428	Spring
K430	70031472	Idle Up Down Lever
K440	70031473	Idle Kick Lever
K450	70031476	Idle Centering Lever
K470	70031477	Cam Lever
K480	70031430	FL Drive Slider
K490	70031431	Cassette Holder Assy
K530	70031415	Drive Arm Assy
K550	70051150	Drive Lever Gear
K562	70031482	Arm Brake Lever
K564	70031440	Spring
K570	70031441	Top Bracket
K590	70031483	Door Open Lever
U501A	70070070	Screw

LOCATION NUMBER	PART NUMBER	DESCRIPTION
		- ELECTRICAL PARTS -
0100	70095051	Main Assy
■0005M		P C Board Assy Main
		- INTEGRATED CIRCUITS -
IT001	70012665	IC TMP90CS74DF-7817
IT002	70011888	IC TA7291S
IT003	70011887	IC TB6515AP
IT004	70012488	IC ST24C08
IT005	70011808	IC PST7032MT
IV001	70012594	IC LA7447BM
IV060	70012440	IC LC89970M
IV100	70012463	IC LA7356M
IV120	70012442	IC 74HC4053
IV160	70010969	IC BA7046
IV170	70010981	IC MC14094BD
IV171	70010981	IC MC14094BD
IY001	70012607	IC SDA5649X
		- TRANSISTORS -
TG030	A6004020	Transistor, Chip RN1402
TG031	70010947	Transistor BC858
TN430	70012432	Transistor, Chip 2SC2859Y
TN439	70010150	Transistor BC848B
TN640	70010150	Transistor BC848B
TN641	70010150	Transistor BC848B
TS030	70012432	Transistor, Chip 2SC2859Y
TS039	70010150	Transistor BC848B
TT001	A6004040	Transistor, Chip RN1404
TT002	A6004040	Transistor, Chip RN1404
TT003	70010150	Transistor BC848B
TT004	70012032	Transistor, Chip 2SA1162GR
TT005	70011386	Transistor 2SA1020-Y
TT006	70010150	Transistor BC848B
TT010	70010131	Transistor BC337-40
TT011	70010942	Transistor BC848
TT012	70010942	Transistor BC848
TT013	70010947	Transistor BC858
TV002	A6004020	Transistor, Chip RN1402
TV011	70010947	Transistor BC858
TV028	70010150	Transistor BC848B
TV036	A6004020	Transistor, Chip RN1402
TV047	70010947	Transistor BC858
TV055	70010150	Transistor BC848B
TV103	A6004020	Transistor, Chip RN1402
TV126	70011788	Transistor, Chip RN2402
TV127	70010947	Transistor BC858
TV130	70010150	Transistor BC848B
TV135	70010150	Transistor BC848B
TV140	70010150	Transistor BC848B
TV141	70010150	Transistor BC848B
TV143	70010947	Transistor BC858
TV145	70010150	Transistor BC848B
TV147	70010150	Transistor BC848B
TV149	70010947	Transistor BC858
TV154	70010150	Transistor BC848B
TV164	A6004020	Transistor, Chip RN1402
TV170	A6004020	Transistor, Chip RN1402
TV188	70010942	Transistor BC848
TV200	70010150	Transistor BC848B
TV201	70010150	Transistor BC848B
TV223	70010150	Transistor BC848B
TV225	A6004020	Transistor, Chip RN1402
TV227	70010150	Transistor BC848B
TV213	70010947	Transistor BC858
TV218	70010150	Transistor BC848B
TV250	70010150	Transistor BC848B
TV251	70010150	Transistor BC848B
TW001	70010942	Transistor BC848
TW002	A6004020	Transistor, Chip RN2403
TW003	[illegible]	Transistor 2SC2236-Y
TW005	70010149	Transistor BD435
TW006	[illegible]	Transistor BC858
TW008	[illegible]	Transistor 2SC2236-Y
TW009	[illegible]	Transistor, Chip RN1405
TZ020	A6004020	Transistor, Chip RN1402
TZ032	70010947	Transistor BC858
TZ050	70010150	Transistor BC848B
TZ051	70010949	Transistor BC858
TZ057	70010947	Transistor BC858
GT005	70010181	Transistor, Photo PT493F
GT006	70010181	Transistor, Photo PT493F
		- DIODES -
DG030	70010342	Diode, Chip LL4148
DG034	70010342	Diode, Chip LL4148
DG035	70010153	Diode 1N4148
DT001	70012342	Diode 1N4001
DT002	70012342	Diode 1N4001
DT003	70012342	Diode 1N4001
DT006	70010334	Diode 1N4448
DT008	70012342	Diode 1N4001
DT009	70011440	Diode ZP5.1
DT010	70012342	Diode 1N4001
DT011	70012342	Diode 1N4001
DT012	70012342	Diode 1N4001
DT013	70010342	Diode, Chip LL4148
DT014	70012342	Diode 1N4001
DT015	70012342	Diode 1N4001
DT016	70010153	Diode 1N4148
DT017	70012342	Diode 1N4001
DT018	70012342	Diode 1N4001
DV029	70010965	Diode LL4448
DV039	70010965	Diode LL4448
DV044	70010334	Diode 1N4448
DV048	70010965	Diode LL4448
DV082	70010965	Diode LL4448
DV109	70010334	Diode 1N4448
DV110	70010334	Diode 1N4448
DV123	70010340	Diode 1SS181
DV126	70010965	Diode LL4448
DV127	70010965	Diode LL4448
DV128	70010965	Diode LL4448
DV163	70012509	Diode, Zener MTZJ4.7C
DV182	70010965	Diode LL4448
DV186	70010965	Diode LL4448
DV202	70010965	Diode LL4448
DW001	70011967	Diode, Zener ZPD12
DW002	70010334	Diode 1N4448
DW005	70011440	Diode ZP5.1
DW006	70010965	Diode LL4448
DW007	70012342	Diode 1N4001
DW008	70012342	Diode 1N4001
DW010	70012436	Diode, Zener ZPD8.2
DW011	70012541	Diode, Zener BZX55B2V7
DW012	70010334	Diode 1N4448
DW013	70012342	Diode 1N4001
DW014	70012342	Diode 1N4001
DZ006	70011440	Diode ZP5.1
GT002	70010180	Diode, LED GL451V
		- COILS -
LN430	70012460	Coil, Bias Oscillator
LN640	70012430	Coil, Peaking
LN641	70012465	Coil, Peaking
LS030	70012461	Coil, Bias Oscillator
LT001	70011953	Coil, Peaking
LT002	70010803	Coil, Peaking
LT004	70011953	Coil, Peaking
LV033	70010920	Coil, Peaking
LV052	70012096	Coil, Peaking
LV063	70011576	Coil, Peaking
LV082	23289101	Coil, Peaking TRF4101AF
LV107	23238708	Coil, Peaking TRF4330AJ
LV151	70011996	Coil, Peaking
LV153	70011849	Coil, Peaking
LV200	70010803	Coil, Peaking
LV214	23289181	Coil, Peaking TRF4181AF
LV215	23289101	Coil, Peaking TRF4101AF
LV226	23289181	Coil, Peaking TRF4181AF
LV245	70012095	Coil, Peaking
LV246	23289220	Coil, Peaking TRF4220AF

LOCATION NUMBER	PART NUMBER	DESCRIPTION		
LV247	70012096	Coil, Peaking		
LV248	70012096	Coil, Peaking		
LV251	70011996	Coil, Peaking		
LZ001	70011541	Coil, Peaking		
LZ002	70011954	Coil, Peaking		
LZ050	70010924	Coil, Peaking		
LZ051	70010924	Coil, Peaking		
		- CAPACITORS -		
CF401	70041131	Cap, Chip	390pF	J 50V
CG103	70040989	Cap, Chip	10nF	K 50V
CG104	70041298	Cap, Electrolytic	1μF	M 50V
CG105	24636010	Cap, Electrolytic	1μF	M 50V
CN430	24815272	Cap, Chip	2700pF	K 50V
CN431	70041596	Cap, Chip	10nF	K 50V
CN433	70041977	Cap, Plastic	82nF	J 50V
CN436	70041596	Cap, Chip	10nF	K 50V
CN438	70011572	Cap, Electrolytic	33μF	M 25V
CN637	70041596	Cap, Chip	10nF	K 50V
CN640	70041596	Cap, Chip	10nF	K 50V
CN643	70041596	Cap, Chip	10nF	K 50V
CN644	24774470	Cap, Chip	47pF	J 50V
CN645	24783330	Cap, Chip	33pF	J 50V
CN646	70041328	Cap, Chip	100nF	Z 25V
CS030	70041596	Cap, Chip	10nF	K 50V
CS031	24815562	Cap, Chip	5600pF	K 50V
CS033	70042146	Cap, Plastic	33nF	J 100V
CS034	24214221	Cap, Ceramic	220pF	K 500V
CS036	70041298	Cap, Electrolytic	1μF	M 50V
CS038	70040530	Cap, Electrolytic	100μF	M 16V
CT001	70041328	Cap, Chip	100nF	Z 25V
CT002	70041596	Cap, Chip	10nF	K 50V
CT003	70041648	Cap, Chip	1000pF	J 50V
CT004	70041630	Cap, Chip	1nF	J 50V
CT005	70041596	Cap, Chip	10nF	K 50V
CT006	70041596	Cap, Chip	10nF	K 50V
CT007	70041596	Cap, Chip	10nF	K 50V
CT008	70041713	Cap, Electrolytic	100μF	M 16V
CT009	70042112	Cap, Electrolytic	47μF	M 16V
CT010	24815222	Cap, Chip	2200pF	K 50V
CT011	70041328	Cap, Chip	100nF	Z 25V
CT012	24783130	Cap, Chip	13pF	D 50V
CT013	24774070	Cap, Chip	7pF	D 50V
CT014	70041654	Cap, Chip	10nF	K 25V
CT015	70041654	Cap, Chip	10nF	K 25V
CT016	70041328	Cap, Chip	100nF	Z 25V
CT017	70041328	Cap, Chip	100nF	Z 25V
CT018	70041328	Cap, Chip	100nF	Z 25V
CT020	70040998	Cap, Chip	100nF	Z 25V
CT021	70041648	Cap, Chip	1000pF	J 50V
CT022	70041630	Cap, Chip	1nF	J 50V
CT023	70041037	Cap, Electrolytic	47μF	M 16V
CT024	70041012	Cap, Chip	150pF	J 50V
CT025	70041130	Cap, Chip	470nF	Z 16V
CT026	70041130	Cap, Chip	470nF	Z 16V
CT027	24774101	Cap, Chip	100pF	J 50V
CT028	24774101	Cap, Chip	100pF	J 50V
CT029	70042122	Cap, Electrolytic	1μF	M 50V
CT030	70042122	Cap, Electrolytic	1μF	M 50V
CT031	70041037	Cap, Electrolytic	47μF	M 16V
CT032	70041328	Cap, Chip	100nF	Z 25V
CT034	70041118	Cap, Chip	220pF	J 50V
CT035	70041118	Cap, Chip	220pF	J 50V
CT036	70041629	Cap, Chip	1nF	M 50V
CT037	24774100	Cap, Chip	10pF	D 50V
CT038	70041125	Cap, Chip	22nF	M 25V
CT039	70042129	Cap, Chip	200pF	J 50V
CT040	24774101	Cap, Chip	100pF	J 50V
CT041	24774470	Cap, Chip	47pF	J 50V
CT042	24774470	Cap, Chip	47pF	J 50V
CT044	70041111	Cap, Electrolytic	470μF	M 10V
CT046	70041328	Cap, Chip	100nF	Z 25V
CT047	70040998	Cap, Chip	100nF	Z 25V
CT048	70040998	Cap, Chip	100nF	Z 25V
CT049	70041596	Cap, Chip	10nF	K 50V
CT050	70041328	Cap, Chip	100nF	Z 25V

LOCATION NUMBER	PART NUMBER	DESCRIPTION		
CT051	70041328	Cap, Chip	100nF	Z 25V
CT052	70041328	Cap, Chip	100nF	Z 25V
CT053	70041066	Cap	0.1F	Z
CT054	70041051	Cap, Electrolytic	47μF	M 16V
CT055	70040412	Cap, Electrolytic	220μF	M 10V
CT056	70042160	Cap, Electrolytic	100μF	M 6.3V
CT060	70040530	Cap, Electrolytic	100μF	M 16V
CT070	70041596	Cap, Chip	10nF	K 50V
CV001	70040994	Cap, Chip	390pF	J 50V
CV002	24872102	Res, Chip	1kΩ	J 1/16W
CV004	70041657	Cap, Chip	22nF	K 25V
CV005	24203100	Cap, Electrolytic	10μF	M 16V
CV006	70041657	Cap, Chip	22nF	K 25V
CV007	70041296	Cap, Electrolytic	10μF	M 6.3V
CV008	70041318	Cap, Electrolytic	100μF	M 6.3V
CV009	70041328	Cap, Chip	100nF	Z 25V
CV010	70041038	Cap, Electrolytic	10μF	M 16V
CV011	70041723	Cap, Chip	8pF	D 50V
CV013	24774680	Cap, Chip	68pF	J 50V
CV016	24636010	Cap, Electrolytic	1μF	M 50V
CV022	70041657	Cap, Chip	22nF	K 25V
CV025	70041657	Cap, Chip	22nF	K 25V
CV029	70042101	Cap, Electrolytic	1μF	M 50V
CV030	70041704	Cap, Chip	47nF	K 10V
CV032	70041624	Cap, Chip	470nF	Z
CV034	70041704	Cap, Chip	47nF	K 10V
CV035	70042122	Cap, Electrolytic	1μF	M 50V
CV036	70041657	Cap, Chip	22nF	K 25V
CV037	70042122	Cap, Electrolytic	1μF	M 50V
CV038	70042127	Cap, Ceramic	22nF	Z 25V
CV039	70042116	Cap, Chip	47nF	K 25V
CV041	70042242	Cap, Chip	27nF	K
CV042	70041654	Cap, Chip	10nF	K 25V
CV044	70041640	Cap, Electrolytic	10μF	M 50V
CV045	70041328	Cap, Chip	100nF	Z 25V
CV046	70041328	Cap, Chip	100nF	Z 25V
CV047	24774560	Cap, Chip	56pF	J 50V
CV048	70041871	Cap, Chip	200pF	J 50V
CV049	70041529	Cap, Chip	1μF	Z 16V
CV053	24781300	Cap, Chip	30pF	J 50V
CV055	24872330	Res, Chip	33Ω	J 1/16W
CV062	70041631	Cap, Chip	22nF	K 50V
CV063	70042160	Cap, Electrolytic	100μF	M 6.3V
CV064	70041328	Cap, Chip	100nF	Z 25V
CV065	70041657	Cap, Chip	22nF	K 25V
CV067	70042122	Cap, Electrolytic	1μF	M 50V
CV069	70042122	Cap, Electrolytic	1μF	M 50V
CV071	70041654	Cap, Chip	10nF	K 25V
CV072	70042126	Cap, Ceramic	10nF	M 16V
CV074	70041328	Cap, Chip	100nF	Z 25V
CV076	70041328	Cap, Chip	100nF	Z 25V
CV077	70041514	Cap, Electrolytic	100μF	M 16V
CV078	70041328	Cap, Chip	100nF	Z 25V
CV079	70042122	Cap, Electrolytic	1μF	M 50V
CV082	24781390	Cap, Chip	39pF	J 50V
CV083	70040268	Cap, Ceramic, Chip	22nF	K 25V
CV103	70042156	Cap, Chip	10nF	K 25V
CV106	24793101	Cap, Electrolytic	100μF	M 10V
CV107	70041328	Cap, Chip	100nF	Z 25V
CV108	70042126	Cap, Ceramic	10nF	M 16V
CV121	70041038	Cap, Electrolytic	10μF	M 16V
CV122	70041328	Cap, Chip	100nF	Z 25V
CV123	70041318	Cap, Electrolytic	100μF	M 6.3V
CV125	70041641	Cap, Electrolytic	10μF	M 50V
CV126	70041328	Cap, Chip	100nF	Z 25V
CV127	70041522	Cap, Electrolytic	47μF	M 10V
CV128	70041522	Cap, Electrolytic	47μF	M 10V
CV135	70041328	Cap, Chip	100nF	Z 25V
CV139	70042160	Cap, Electrolytic	100μF	M 6.3V
CV140	70041328	Cap, Chip	100nF	Z 25V
CV151	24783180	Cap, Chip	180pF	J 50V
CV152	70041323	Cap, Chip	8pF	C 50V
CV153	70041923	Cap, Chip	75pF	J 50V
CV154	24774180	Cap, Chip	18pF	J 50V
CV161	24774101	Cap, Chip	100pF	J 50V

LOCATION NUMBER	PART NUMBER	DESCRIPTION		
CV163	70042129	Cap, Chip	2.2nF	J 50V
CV164	70041318	Cap, Electrolytic	100μF	M 6.3V
CV165	24774101	Cap, Chip	100pF	J 50V
CV166	70042122	Cap, Electrolytic	1μF	M 50V
CV167	70041328	Cap, Chip	100nF	Z 25V
CV168	70042159	Cap, Electrolytic	100μF	M 6.3V
CV169	70041298	Cap, Electrolytic	1μF	M 50V
CV170	70041699	Cap, Chip	100nF	K
CV171	70041328	Cap, Chip	100nF	Z 25V
CV182	70041631	Cap, Chip	22nF	K 50V
CV184	24774680	Cap, Chip	68pF	J 50V
CV189	70041631	Cap, Chip	22nF	K 50V
CV200	70041328	Cap, Chip	100nF	Z 25V
CV201	70041713	Cap, Electrolytic	100μF	M 16V
CV206	70041654	Cap, Chip	10nF	K 25V
CV212	70041654	Cap, Chip	10nF	K 25V
CV213	24774220	Cap, Chip	22pF	J 50V
CV214	70042117	Cap, Chip	130pF	J 50V
CV215	70041326	Cap, Chip	56pF	J 50V
CV219	70041328	Cap, Chip	100nF	Z 25V
CV222	24285103	Cap, Chip	0.01μF	K 50V
CV224	70041654	Cap, Chip	10nF	K 25V
CV226	70042130	Cap, Chip	51pF	J 50V
CV240	70041514	Cap, Electrolytic	100μF	M 16V
CV241	70041328	Cap, Chip	100nF	Z 25V
CV242	70042184	Cap, Ceramic	27pF	J 50V
CV244	70042185	Cap, Chip	1.5nF	J 50V
CV246	70042118	Cap, Chip	15pF	J 50V
CV247	24783181	Cap, Chip	180pF	J 50V
CV248	24774150	Cap, Chip	15pF	J 50V
CV249	70041864	Cap, Chip	24pF	J 50V
CV251	70041657	Cap, Chip	22nF	K 25V
CV252	70041326	Cap, Chip	56pF	J 50V
CV254	70041328	Cap, Chip	100nF	Z 25V
CW001	24794101	Cap, Electrolytic	100μF	M 16V
CW005	24797100	Cap, Electrolytic	10μF	M 50V
CW007	70042116	Cap, Chip	47nF	K 25V
CW025	70040738	Cap, Electrolytic	4.7μF	25V
CY001	24783151	Cap, Chip	150pF	J 50V
CY002	70041530	Cap, Chip	330nF	Z 16V
CY003	70041114	Cap, Ceramic	330	K 50V
CY004	70041704	Cap, Chip	47nF	K 10V
CY010	24815222	Cap, Chip	2200pF	K 50V
CZ005	70042147	Cap, Chip	100pF	K
CZ013	70041125	Cap, Chip	22nF	M 25V
CZ014	70041241	Cap, Electrolytic	47μF	M 16V
CZ015	70041500	Cap, Electrolytic	47μF	M 50V
CZ021	70041657	Cap, Chip	22nF	K 25V
CZ022	70042126	Cap, Ceramic	10nF	M 16V
CZ030	24794101	Cap, Electrolytic	100μF	M 16V
CZ033	24794101	Cap, Electrolytic	100μF	M 16V
PT001	24093962	Cap, Variable	20pF	
		- RESISTORS -		
RS030	24872102	Res, Chip	1kΩ	J 1/16W
RS031	24872103	Res, Chip	10kΩ	J 1/16W
RS032	24872821	Res, Chip	820Ω	J 1/16W
RS034	24872682	Res, Chip	6.8kΩ	J 1/16W
RS035	24871472	Res, Chip	4.7kΩ	J 1/8W
RS036	24871562	Res, Chip	5.6kΩ	J 1/8W
RS037	24872822	Res, Chip	8.2kΩ	J 1/8W
RS038		Chip Jumper		
RS039		Chip Jumper		
RS040		Chip Jumper		
RS041	24872101	Res, Chip	100Ω	J 1/16W
RS042	24871522	Res, Carbon	1.5kΩ	J 1/4W
RS043	24872152	Res, Chip	1.5kΩ	J 1/16W
RS044	24871472	Res, Chip	4.7Ω	J 1/10W
RS045	24872561	Res, Chip	56kΩ	J 1/16W
RS047	24872181	Res, Fusible	18Ω	J 0.3W
RS048	24872392	Res, Chip	3.9kΩ	J 1/16W
RS049	24872101	Res, Chip	100Ω	J 1/8W
RS050	24872471	Res, Chip	470Ω	J 1/8W
RS051	24872561	Res, Chip	560Ω	J 1/16W
RS052	24872102	Res, Chip	1.2kΩ	J 1/16W
RS053	24872103	Res, Chip	10kΩ	J 1/16W

LOCATION NUMBER	PART NUMBER	DESCRIPTION		
RN646	24872392	Res, Chip	3.9kΩ	J 1/16W
RS030	70041919	Res, Chip	4.7Ω	J 1/10W
RS031	24872472	Res, Chip	4.7kΩ	J 1/16W
RS036	24872103	Res, Chip	10kΩ	J 1/16W
RS039	24872472	Res, Chip	4.7kΩ	J 1/16W
RS040	24872472	Res, Chip	4.7kΩ	J 1/16W
RS042	24872123	Res, Chip	12kΩ	J 1/16W
RS043	70041096	Chip Jumper		
⚠RS045	70041671	Res, Fusible	18Ω	J 0.3W
RS051	24872100	Res, Chip	10Ω	J 1/16W
RT001	24872221	Res, Chip	220Ω	J 1/16W
RT002	70040106	Res, Carbon	10kΩ	J 1/4W
RT003	70042163	Res, Chip	11kΩ	G 1/8W
RT004	70040702	Res, Carbon	12kΩ	J 1/4W
RT005	24871473	Res, Chip	47kΩ	J 1/8W
RT006	24871473	Res, Chip	47kΩ	J 1/8W
RT007	24872103	Res, Chip	10kΩ	J 1/16W
RT008	24871229	Res, Chip	2.2Ω	J 1/8W
RT009	24871229	Res, Chip	2.2Ω	J 1/8W
RT010	24872472	Res, Chip	4.7kΩ	J 1/16W
RT011	24872821	Res, Chip	820Ω	J 1/16W
RT012	24871103	Res, Chip	10kΩ	J 1/8W
RT013	24872472	Res, Chip	4.7kΩ	J 1/16W
RT014	70042025	Res, Carbon	110kΩ	J 1/4W
RT015	24872114	Res, Chip	110kΩ	J 1/16W
RT016	70042031	Res, Carbon	5.1kΩ	J 1/4W
RT017	24871201	Res, Chip	200Ω	J 1/8W
RT018	24871201	Res, Chip	200Ω	J 1/8W
RT019	24871103	Res, Chip	10kΩ	J 1/8W
RT020	24871103	Res, Chip	10kΩ	J 1/8W
RT021	24871102	Res, Chip	1kΩ	J 1/8W
RT022	24872182	Res, Chip	1.8kΩ	J 1/16W
RT023	24872472	Res, Chip	4.7kΩ	J 1/16W
RT024	24872472	Res, Chip	4.7kΩ	J 1/16W
RT025	24872472	Res, Chip	4.7kΩ	J 1/16W
RT026	24872102	Res, Chip	1kΩ	J 1/16W
RT027	70040891	Res, Carbon	470Ω	J 0.2W
RT030	24871472	Res, Chip	4.7kΩ	J 1/8W
RT031	24872821	Res, Chip	820Ω	J 1/16W
RT032	24871562	Res, Chip	5.6kΩ	J 1/8W
RT033	24872562	Res, Chip	5.6kΩ	J 1/16W
RT034	24871273	Res, Chip	27kΩ	J 1/8W
RT035	24871223	Res, Chip	22kΩ	J 1/8W
RT036	24871561	Res, Chip	560Ω	J 1/8W
RT037	24871561	Res, Chip	560Ω	J 1/8W
RT038	24871331	Res, Chip	330Ω	J 1/8W
RT039	24871331	Res, Chip	330Ω	J 1/8W
RT040	70040852	Res, Chip	10kΩ	J 1/8W
RT041	24872471	Res, Chip	470Ω	J 1/16W
RT042	24871684	Res, Chip	680kΩ	J 1/8W
RT043	24872224	Res, Chip	220kΩ	J 1/16W
RT044	24871105	Res, Chip	1MΩ	J 1/8W
RT045	24872105	Res, Chip	1MΩ	J 1/16W
RT046	24872563	Res, Chip	56kΩ	J 1/16W
RT047	24872182	Res, Chip	1.8kΩ	J 1/16W
RT048	24872182	Res, Chip	1.8kΩ	J 1/16W
RT049	24872563	Res, Chip	56kΩ	J 1/16W
RT052	24871102	Res, Chip	1kΩ	J 1/8W
RT053	70040118	Res, Carbon	4.7kΩ	J 1/4W
RT055	70040101	Res, Carbon	680Ω	J
RT058	24872222	Res, Chip	2.2kΩ	J 1/16W
RT059	70040373	Res, Chip	4.7kΩ	J 1/16W
RT063	24872221	Res, Chip	220Ω	J 1/16W
RT064	24872221	Res, Chip	220Ω	J 1/16W
RT065	24872472	Res, Chip	4.7kΩ	J 1/16W
RT066	24872472	Res, Chip	4.7kΩ	J 1/16W
RT067	24871471	Res, Chip	470Ω	J 1/8W
RT068	24872101	Res, Chip	100Ω	J 1/16W
RT069	24872222	Res, Chip	2.2kΩ	J 1/16W
RT072	24872103	Res, Chip	10kΩ	J 1/16W
RT073	24872473	Res, Chip	47kΩ	J 1/16W
RT074	24872303	Res, Chip	30kΩ	J 1/16W
RT075	24872102	Res, Chip	1kΩ	J 1/16W
RT081	24871101	Res, Chip	100Ω	J 1/8W
RT082	24871222	Res, Chip	2.2kΩ	J 1/8W

LOCATION NUMBER	PART NUMBER	DESCRIPTION		
RT083	24872222	Res, Chip	2.2kΩ	J 1/16W
RT084	24872182	Res, Chip	1.8kΩ	J 1/16W
RT085	24872182	Res, Chip	1.8kΩ	J 1/16W
RT086	24871222	Res, Chip	2.2kΩ	J 1/8W
RT088	24871561	Res, Chip	560Ω	J 1/8W
⚠RT089	70040122	Res, Carbon	1Ω	J 0.3W
RT090	70040099	Res, Carbon	6.8kΩ	J 1/4W
RT091	24872102	Res, Chip	1kΩ	J 1/16W
RV001	24872681	Res, Chip	680Ω	J 1/16W
RV002	24774479	Cap, Chip	4.7pF	
RV005	24872362	Res, Chip	3.6kΩ	J 1/16W
RV006	24872392	Res, Chip	3.9kΩ	J 1/16W
RV007	24872222	Res, Chip	2.2kΩ	J 1/16W
RV008	24872332	Res, Chip	3.3kΩ	J 1/16W
RV010	24871102	Res, Chip	1kΩ	J 1/8W
RV011	24872101	Res, Chip	100Ω	J 1/16W
RV013	70040356	Res, Chip	1.8kΩ	J 1/16W
RV020	24871102	Res, Chip	1kΩ	J 1/8W
RV021	70040354	Res, Chip	1kΩ	J 1/16W
RV022	24872472	Res, Chip	4.7kΩ	J 1/16W
RV023	24872472	Res, Chip	4.7kΩ	J 1/16W
RV025	24872272	Res, Chip	2.7kΩ	J 1/16W
RV026	70040118	Res, Carbon	4.7kΩ	J 1/4W
RV027	24871102	Res, Chip	1kΩ	J 1/8W
RV028	24872182	Res, Chip	1.8kΩ	J 1/16W
RV029	24871822	Res, Chip	8.2kΩ	J 1/8W
RV036	24872102	Res, Chip	1kΩ	J 1/16W
RV041	24871103	Res, Chip	10kΩ	J 1/8W
RV044	24872202	Res, Chip	2kΩ	J 1/16W
RV045	24872152	Res, Chip	1.5kΩ	J 1/16W
RV046	24872512	Res, Chip	5.1kΩ	J 1/16W
RV047	24872102	Res, Chip	1kΩ	J 1/16W
RV048	70041096	Chip Jumper		
RV049	24871272	Res, Chip	2.7kΩ	J 1/8W
RV050	70041096	Chip Jumper		
RV051	24872471	Res, Chip	470Ω	J 1/16W
RV053	24872101	Res, Chip	100Ω	J 1/16W
RV054	70041096	Chip Jumper		
RV055	24872102	Res, Chip	1kΩ	J 1/16W
RV071	70041096	Chip Jumper		
RV073	70041096	Chip Jumper		
RV074	70041093	Chip Jumper		
RV075	24872472	Res, Chip	4.7kΩ	J 1/16W
RV076	24872823	Res, Chip	82kΩ	J 1/16W
RV077	24872102	Res, Chip	1kΩ	J 1/16W
RV082	70040391	Chip Jumper		
RV104	70041096	Chip Jumper		
RV105	24872272	Res, Chip	2.7kΩ	J 1/16W
RV106	24872102	Res, Chip	1kΩ	J 1/16W
RV109	24872472	Res, Chip	4.7kΩ	J 1/16W
RV110	24872472	Res, Chip	4.7kΩ	J 1/16W
RV111	24872473	Res, Chip	47kΩ	J 1/16W
RV120	24872104	Res, Chip	100kΩ	J 1/16W
RV121	24872104	Res, Chip	100kΩ	J 1/16W
RV122	24871332	Res, Chip	3.3kΩ	J 1/8W
RV123	24872392	Res, Chip	3.9kΩ	J 1/16W
RV124	24872681	Res, Chip	680Ω	J 1/16W
RV125	24872102	Res, Chip	1kΩ	J 1/16W
RV126	24872272	Res, Chip	2.7kΩ	J 1/16W
RV127	70041096	Chip Jumper		
RV128	24872682	Res, Chip	6.8kΩ	J 1/16W
RV129	24872183	Res, Chip	18kΩ	J 1/16W
RV130	24872222	Res, Chip	2.2kΩ	J 1/16W
RV131	24872102	Res, Chip	1kΩ	J 1/16W
RV132	70040358	Res, Chip	10kΩ	J 1/16W
RV135	70040891	Res, Carbon	470Ω	J 0.2W
RV137	24871332	Res, Chip	3.3kΩ	J 1/8W
RV138	24872821	Res, Chip	820Ω	J 1/16W
RV139	24872562	Res, Chip	5.6kΩ	J 1/16W
RV140	24872331	Res, Chip	330Ω	J 1/16W
RV141	24872182	Res, Chip	1.8kΩ	J 1/16W
RV142	24872102	Res, Chip	1kΩ	J 1/16W
RV143	24872103	Res, Chip	10kΩ	J 1/16W
RV144	70040839	Res, Carbon	100Ω	J 1/4W
RV145	24872182	Res, Chip	1.8kΩ	J 1/16W

LOCATION NUMBER	PART NUMBER	DESCRIPTION		
RV146	24872102	Res, Chip	1kΩ	J 1/16W
RV147	24872682	Res, Chip	6.8kΩ	J 1/16W
RV148	24872182	Res, Chip	1.8kΩ	J 1/16W
RV150	24872102	Res, Chip	1kΩ	J 1/16W
RV151	24871102	Res, Chip	1kΩ	J 1/8W
RV154	24872102	Res, Chip	1kΩ	J 1/16W
RV160	24872472	Res, Chip	4.7kΩ	J 1/16W
RV161	70042138	Res, Chip	130kΩ	F
RV163	24872474	Res, Chip	470kΩ	J 1/16W
RV164	24872561	Res, Chip	560Ω	J 1/16W
RV165	24872561	Res, Chip	560Ω	J 1/16W
RV166	24872474	Res, Chip	470kΩ	J 1/16W
RV167	24871272	Res, Chip	2.7kΩ	J 1/8W
RV168	24871682	Res, Chip	6.8kΩ	J 1/8W
RV169	24871471	Res, Chip	470Ω	J 1/8W
RV170	24872472	Res, Chip	4.7kΩ	J 1/16W
RV171	24872223	Res, Chip	22kΩ	J 1/16W
RV181	24872222	Res, Chip	2.2kΩ	J 1/16W
RV182	70041919	Res, Chip	4.7Ω	J 1/10W
RV183	24871472	Res, Chip	4.7kΩ	J 1/8W
RV184	24872123	Res, Chip	12kΩ	J 1/16W
RV185	24872223	Res, Chip	22kΩ	J 1/16W
RV186	24872473	Res, Chip	47kΩ	J 1/16W
RV188	24872102	Res, Chip	1kΩ	J 1/16W
RV189	24872124	Res, Chip	120kΩ	J 1/16W
RV190	24872104	Res, Chip	100kΩ	J 1/16W
RV191	24872683	Res, Chip	68kΩ	J 1/16W
RV194	24872564	Res, Chip	560kΩ	J 1/16W
RV200	24872102	Res, Chip	1kΩ	J 1/16W
RV201	24872102	Res, Chip	1kΩ	J 1/16W
RV202	24872102	Res, Chip	1kΩ	J 1/16W
RV204	24871183	Res, Chip	18kΩ	J 1/8W
RV205	24872103	Res, Chip	10kΩ	J 1/16W
RV206	24872752	Res, Chip	7.5kΩ	J 1/16W
RV213	24872222	Res, Chip	2.2kΩ	J 1/16W
RV214	24872222	Res, Chip	2.2kΩ	J 1/16W
RV215	24872431	Res, Chip	430Ω	J 1/16W
RV221	24872183	Res, Chip	18kΩ	J 1/16W
RV222	24872103	Res, Chip	10kΩ	J 1/16W
RV223	24872122	Res, Chip	1.2kΩ	J 1/16W
RV224	24872821	Res, Chip	820Ω	J 1/16W
RV225	24871152	Res, Chip	1.5kΩ	J 1/8W
RV227	24872392	Res, Chip	3.9kΩ	J 1/16W
RV241	24871392	Res, Chip	3.9kΩ	J 1/8W
RV242	70040391	Chip Jumper		
RV243	24872562	Res, Chip	5.6kΩ	J 1/16W
RV244	24872561	Res, Chip	560Ω	J 1/16W
RV245	24872102	Res, Chip	1kΩ	J 1/16W
RV247	24872561	Res, Chip	560Ω	J 1/16W
RV248	70041137	Res, Chip	3.9kΩ	J 1/10W
RV249	24872471	Res, Chip	470Ω	J 1/16W
RV250	24872431	Res, Chip	430Ω	J 1/16W
RV251	24871132	Res, Chip	1.3kΩ	J 1/8W
RV252	24872152	Res, Chip	1.5kΩ	J 1/16W
RV253	24872391	Res, Chip	390Ω	J 1/16W
RV254	24872471	Res, Chip	470Ω	J 1/16W
RV255	24872561	Res, Chip	560Ω	J 1/16W
RV256	24871561	Res, Chip	560Ω	J 1/8W
RV257	24872102	Res, Chip	1kΩ	J 1/16W
RW001	70041352	Res, Chip	4.7kΩ	J 1/8W
RW002	24871122	Res, Chip	1.2kΩ	J 1/8W
RW005	24871223	Res, Chip	22kΩ	J 1/8W
RW008	70040896	Res, Carbon	3.3kΩ	J 1/4W
RW009	70040896	Res, Carbon	3.3kΩ	J 1/4W
⚠RW012	70041074	Res, Fusible	27Ω	J 0.3W
RW017	24871472	Res, Chip	4.7kΩ	J 1/8W
RW019	24871681	Res, Chip	680Ω	J 1/8W
RW020	24871681	Res, Chip	680Ω	J 1/8W
⚠RW021	70041672	Res, Fusible	5.6Ω	J 0.3W
RW024	24871273	Res, Chip	27kΩ	J 1/8W
RW025	24871392	Res, Chip	3.9kΩ	J 1/8W
RW029	70042148	Res, Oxide Metal	0.51Ω	
⚠RW030	70041116	Res, Fusible	39Ω	J 0.3W
RW031	70042135	Res, Carbon	560Ω	J 430mW
RW032	24871103	Res, Chip	10kΩ	J 1/8W

LOCATION NUMBER	PART NUMBER	DESCRIPTION		
RW033	[illegible]	Res, Chip	3.3kΩ	J 1/8W
RY001	24872222	Res, Chip	2.2kΩ	J 1/16W
RY002	24872105	Res, Chip	1MΩ	J 1/16W
RY003	24872125	Res, Chip	1.2MΩ	J 1/16W
RY004	24872682	Res, Chip	6.8kΩ	J 1/16W
RY006	70040751	Res, Chip	100kΩ	J 1/8W
RY007	70041096	Chip Jumper		
RY009	24872682	Res, Chip	6.8kΩ	J 1/16W
RY010	24872125	Res, Chip	1.2MΩ	J 1/16W
RZ007	70041096	Chip Jumper		
RZ008	70041096	Chip Jumper		
RZ015	70040961	Res, Carbon	1kΩ	J 1/4W
RZ019	24872563	Res, Chip	56kΩ	J 1/16W
RZ020	24871222	Res, Chip	2.2kΩ	J 1/8W
RZ030	24872911	Res, Chip	910Ω	J 1/16W
RZ031	24872102	Res, Chip	1kΩ	J 1/16W
RZ035	70041096	Chip Jumper		
RZ037	70040686	Res, Chip	1.5kΩ	J 1/8W
RZ050	24872681	Res, Chip	680Ω	J 1/16W
RZ051	70041094	Res, Chip	130Ω	J
RZ052	24871471	Res, Chip	470Ω	J 1/8W
RZ053	24872331	Res, Chip	330Ω	J 1/16W
RZ054	24871102	Res, Chip	1kΩ	J 1/8W
RZ055	70040133	Res, Chip	1kΩ	J 1/8W
RZ056	70041096	Chip Jumper		
RZ057	24871472	Res, Chip	4.7kΩ	J 1/8W
RZ060	24872270	Res, Chip	27Ω	J 1/16W
RZ065	70041660	Res, Carbon	100Ω	J 0.5W
RZ066	70041658	Res, Carbon	82Ω	J 1/2W
RZ070	70041096	Chip Jumper		
RZ071	70041096	Chip Jumper		
JG036	70041096	Chip Jumper		
JG037	70040391	Chip Jumper		
JG101	70040841	Res, Carbon	22kΩ	J 1/2W
JG102	70040841	Res, Carbon	22kΩ	J 1/2W
JG107	70041093	Chip Jumper		
JN401	70041096	Chip Jumper		
JN603	70041093	Chip Jumper		
JS031	70041093	Chip Jumper		
JS032	70041093	Chip Jumper		
JS036	70041093	Chip Jumper		
JS037	70041093	Chip Jumper		
JS043	70041093	Chip Jumper		
JS050	70041093	Chip Jumper		
JS051	70041093	Chip Jumper		
JS053	70041093	Chip Jumper		
JT001	70041093	Chip Jumper		
JT006	70041093	Chip Jumper		
JT012	70041096	Chip Jumper		
JT018	70041093	Chip Jumper		
JT019	70041093	Chip Jumper		
JT020	70041093	Chip Jumper		
JT021	70041093	Chip Jumper		
JT031	70041093	Chip Jumper		
JT033	70041093	Chip Jumper		
JT035	70040103	Res, Carbon	1kΩ	J 1/4W
JT036	70041093	Chip Jumper		
JT038	70041093	Chip Jumper		
JT051	70041093	Chip Jumper		
JT056	70041093	Chip Jumper		
JT066	70041093	Chip Jumper		
JT070	70041093	Chip Jumper		
JT080	70041093	Chip Jumper		
JT081	70041093	Chip Jumper		
JT082	70041093	Chip Jumper		
JT083	70041093	Chip Jumper		
JT084	70041093	Chip Jumper		
JT085	70041093	Chip Jumper		
JT086	70041093	Chip Jumper		
JT087	70041093	Chip Jumper		
JT088	70041093	Chip Jumper		
JT089	70041093	Chip Jumper		
JT090	70041093	Chip Jumper		
JT091	70041093	Chip Jumper		
JT092	70041093	Chip Jumper		
JT093	70041093	Chip Jumper		
JT094	70041093	Chip Jumper		
JT095	70041093	Chip Jumper		
JT096	70041093	Chip Jumper		
JT097	70041093	Chip Jumper		
JT098	70041093	Chip Jumper		
JT099	70041093	Chip Jumper		
JT100	70041093	Chip Jumper		
JT101	70041093	Chip Jumper		
JT102	70041093	Chip Jumper		
JT103	70041093	Chip Jumper		
JT104	70041093	Chip Jumper		
JT105	70041093	Chip Jumper		
JT106	70041093	Chip Jumper		
JT107	70041093	Chip Jumper		
JT108	70041093	Chip Jumper		
JT109	70041093	Chip Jumper		
JT110	70041093	Chip Jumper		
JT111	70041093	Chip Jumper		
JT112	70041093	Chip Jumper		
JT113	70041093	Chip Jumper		
JT114	70041093	Chip Jumper		
JT115	70041093	Chip Jumper		
JT116	70041093	Chip Jumper		
JT117	70041093	Chip Jumper		
JT118	70041093	Chip Jumper		
JT119	70041093	Chip Jumper		
JT120	70041093	Chip Jumper		
JT121	70041093	Chip Jumper		
JT122	70041093	Chip Jumper		

LOCATION NUMBER	PART NUMBER	DESCRIPTION		
JT123	24872681	Res, Chip	680Ω	J 1/16W
JT124	70041093	Chip Jumper		
JT128	70041093	Chip Jumper		
JT129	70041093	Chip Jumper		
JT130	70041093	Chip Jumper		
JT134	70041093	Chip Jumper		
JT136	70041093	Chip Jumper		
JT148	70041093	Chip Jumper		
JT161	70041093	Chip Jumper		
JT171	70041096	Chip Jumper		
JT174	70041096	Chip Jumper		
JT175	70041096	Chip Jumper		
JT176	70041096	Chip Jumper		
JT177	70041096	Chip Jumper		
JT179	70041096	Chip Jumper		
JT190	70041093	Chip Jumper		
JT191	70041093	Chip Jumper		
JT192	70041093	Chip Jumper		
JT193	70041093	Chip Jumper		
JT194	70041093	Chip Jumper		
JT203	70041093	Chip Jumper		
JT206	70041096	Chip Jumper		
JT209	70041096	Chip Jumper		
JT212	70041093	Chip Jumper		
JT215	70041096	Chip Jumper		
JT217	70041093	Chip Jumper		
JV001	70041093	Chip Jumper		
JV023	70041093	Chip Jumper		
JV037	70041093	Chip Jumper		
JV043	70041093	Chip Jumper		
JV056	70041093	Chip Jumper		
JV058	70041096	Chip Jumper		
JV060	70041093	Chip Jumper		
JV061	70041093	Chip Jumper		
JV062	70041093	Chip Jumper		
JV065	70041093	Chip Jumper		
JV066	70041093	Chip Jumper		
JV069	70041093	Chip Jumper		
JV070	70041093	Chip Jumper		
JV071	70041093	Chip Jumper		
JV074	70041093	Chip Jumper		
JV075	70041093	Chip Jumper		
JV076	70041093	Chip Jumper		
JV078	70041093	Chip Jumper		
JV089	70041093	Chip Jumper		
JV090	70041093	Chip Jumper		
JV094	70041093	Chip Jumper		
JV099	70040849	Res, Carbon	2.2kΩ	J
JV101	70041093	Chip Jumper		
JV116	70041096	Chip Jumper		
JV117	70041096	Chip Jumper		
JV123	70041093	Chip Jumper		
JV126	70041096	Chip Jumper		
JV129	70041096	Chip Jumper		
JV130	70041096	Chip Jumper		
JV131	70041096	Chip Jumper		
JV140	70041093	Chip Jumper		
JV145	70041093	Chip Jumper		
JV155	70041093	Chip Jumper		
JV156	70041093	Chip Jumper		
JV158	70041096	Chip Jumper		
JV159	70041093	Chip Jumper		
JV162	70041093	Chip Jumper		
JW009	70041093	Chip Jumper		
JW014	70041093	Chip Jumper		
JW015	70041093	Chip Jumper		
JW019	70041093	Chip Jumper		
JW026	70041093	Chip Jumper		
JW027	70041093	Chip Jumper		
JW041	70041093	Chip Jumper		
JY006	70041093	Chip Jumper		
JY007	70041093	Chip Jumper		
JY008	70040568	Res, Chip	220Ω	J 1/8W
JY009	70041093	Chip Jumper		
JY010	70041093	Chip Jumper		

LOCATION NUMBER	PART NUMBER	DESCRIPTION		
JY011	70040568	Res, Chip	220Ω	J 1/8W
JY012	70041093	Chip Jumper		
JZ007	70041093	Chip Jumper		
JZ008	70041093	Chip Jumper		
JZ013	70042245	Res, Carbon	120Ω	J 1/4W
JZ015	70041093	Chip Jumper		
JZ017	70041093	Chip Jumper		
JZ020	70041093	Chip Jumper		
JZ022	70041096	Chip Jumper		
JZ030	70041093	Chip Jumper		
JZ040	70041093	Chip Jumper		
JZ041	70041093	Chip Jumper		
JZ042	70041093	Chip Jumper		
JZ045	70041093	Chip Jumper		
JZ048	70040841	Res, Carbon	220Ω	J 1/4W
JZ049	70040841	Res, Carbon	220Ω	J 1/4W
JZ053	70041093	Chip Jumper		
JZ062	70041096	Chip Jumper		
JZ074	70041093	Chip Jumper		
		- MISCELLANEOUS -		
0010M	70011844	Tuner		
0020M	70011845	IF Module		
BS001	23164506	Plug 2P		
BT001	70011830	Connector		
FZ050	70012166	Filter	5.74MHz	
FZ051	70011260	Filter		
GT001	70011828	Hall Sensor	HW300B	
GT003	70011793	Photo Interrupter	GP1S562	
GT004	70011793	Photo Interrupter	GP1S562	
GT02A	70051136	LED Holder		
MT001	70031317	Stator		
QT001	70012188	Crystal	17.734MHz	
QT002	70010116	Crystal, 32kHz		
QT003	70011861	Crystal	16MHz	
QV028	70011960	Crystal	4.433619MHz	
ST001	70011826	Switch, Push		
[redacted]0030M	70090902	P C Board Assy	TMB	
		- INTEGRATED CIRCUITS -		
IN001	70012462	IC	MSP3400C	
IN002	70012439	IC	TA75557P	
IN003	70012439	IC	TA75557P	
IN005	70011896	IC	BA3129F	
IN006	70011806	IC	BA7755	
IN007	70012542	IC	TA8863BF	
IX101	70011881	IC	STV6400	
		- TRANSISTORS -		
TN001	A6004040	Transistor, Chip	RN1404	
TN002	70010331	Transistor	BC847B	
TN003	70010331	Transistor	BC847B	
TN004	70010331	Transistor	BC847B	
TN300	A6541130	Transistor, Chip	2SA1162-Y	
TN302	A6541130	Transistor, Chip	2SA1162-Y	
		- DIODES -		
DN001	70010342	Diode, Chip	LL4148	
DN002	70010965	Diode	LL4448	
DN003	70010965	Diode	LL4448	
DN150	70010342	Diode, Chip	LL4148	
DN151	70010342	Diode, Chip	LL4148	
DN300	70010340	Diode	1SS181	
		- COILS -		
LN001	70011771	Coil, Peaking		
LN003	70012095	Coil, Peaking		
LN004	70011771	Coil, Peaking		
LN300	23289121	Coil, Peaking	TRF4121AF	
LN301	23237729	Coil, Peaking	TRF4822AP	
LX101	70011848	Coil, Peaking		
LX102	70011848	Coil, Peaking		
LX103	70011772	Coil, Peaking		
LX105	70012431	Coil, Chip		
		- CAPACITORS -		
CN090	24092293	Cap, Chip	0.1μF	Z 25V
CN096	70041530	Cap, Chip	330nF	Z 16V
CN097	70041530	Cap, Chip	330nF	Z 16V
CN098	70041530	Cap, Chip	330nF	Z 16V

LOCATION NUMBER	PART NUMBER	DESCRIPTION		
CN099	70041530	Cap, Chip	330nF	Z 16V
CN100	70041131	Cap, Chip	390pF	J 50V
CN101	70041131	Cap, Chip	390pF	J 50V
CN102	70041271	Cap, Chip	2.2nF	K 50V
CN103	70041271	Cap, Chip	2.2nF	K 50V
CN104	70041271	Cap, Chip	2.2nF	K 50V
CN105	70041271	Cap, Chip	2.2nF	K 50V
CN106	70041649	Cap, Chip	0.68μF	Z 50V
CN107	70041649	Cap, Chip	0.68μF	Z 50V
CN111	70041530	Cap, Chip	330nF	Z 16V
CN112	70041530	Cap, Chip	330nF	Z 16V
CN113	70041042	Cap, Electrolytic	10μF	X
CN114	70040493	Cap, Chip	10nF	K 50V
CN115	24633220	Cap, Electrolytic	22μF	M 16V
CN120	70041889	Cap, Electrolytic	220μF	M 16V
CN121	70040493	Cap, Chip	10nF	K 50V
CN122	24093962	Cap, Variable	20pF	
CN123	70041274	Cap, Chip	27pF	
CN125	70042183	Cap, Ceramic	1pF	C
CN126	70040493	Cap, Chip	10nF	K 50V
CN127	70040493	Cap, Chip	10nF	K 50V
CN128	70040493	Cap, Chip	10nF	K 50V
CN129	70040493	Cap, Chip	10nF	K 50V
CN130	24633220	Cap, Electrolytic	22μF	M 16V
CN131	70041130	Cap, Chip	470nF	Z 16V
CN132	70041042	Cap, Electrolytic	10μF	X
CN134	70042010	Cap, Chip	0.1μF	Z
CN135	70041530	Cap, Chip	330nF	Z 16V
CN136	70041530	Cap, Chip	330nF	Z 16V
CN137	70041530	Cap, Chip	330nF	Z 16V
CN138	70041530	Cap, Chip	330nF	Z 16V
CN139	70041706	Cap, Chip	470pF	J 50V
CN140	70041706	Cap, Chip	470pF	J 50V
CN141	70041294	Cap, Electrolytic	33μF	M 16V
CN142	70042010	Cap, Chip	0.1μF	Z
CN143	70041042	Cap, Electrolytic	10μF	X
CN144	70040493	Cap, Chip	10nF	K 50V
CN145	24633220	Cap, Electrolytic	22μF	M 16V
CN146	70041042	Cap, Electrolytic	10μF	X
CN147	70041530	Cap, Chip	330nF	Z 16V
CN148	70041530	Cap, Chip	330nF	Z 16V
CN150	70041264	Cap, Chip	150pF	
CN151	70041306	Cap, Electrolytic	10μF	M 16V
CN152	70041306	Cap, Electrolytic	10μF	M 16V
CN153	70041264	Cap, Chip	150pF	
CN154	70041051	Cap, Electrolytic	47μF	M 16V
CN155	70042010	Cap, Chip	0.1μF	Z
CN156	70041051	Cap, Electrolytic	47μF	M 16V
CN161	70041933	Cap, Chip	1.2nF	K 50V
CN162	70041649	Cap, Chip	0.68μF	Z 50V
CN163	24794470	Cap, Electrolytic	47μF	M 16V
CN165	70041933	Cap, Chip	1.2nF	K 50V
CN181	70041933	Cap, Chip	1.2nF	K 50V
CN182	24794470	Cap, Electrolytic	47μF	M 16V
CN184	70041933	Cap, Chip	1.2nF	K 50V
CN185	70041376	Cap, Chip	10nF	Z 50V
CN186	24794101	Cap, Electrolytic	100μF	M 16V
CN190	24203100	Cap, Electrolytic	10μF	M 16V
CN191	24203100	Cap, Electrolytic	10μF	M 16V
CN303	24206478	Cap, Electrolytic	0.47μF	M 50V
CN304	24206478	Cap, Electrolytic	0.47μF	M 50V
CN305	70041934	Cap, Chip	3.3nF	K 50V
CN306	70041934	Cap, Chip	3.3nF	K 50V
CN307	24630852	Cap, Electrolytic	22μF	M 16V
CN308	70042120	Cap, Electrolytic	330μF	M 6.3V
CN309	24203100	Cap, Electrolytic	10μF	M 16V
CN310	24203100	Cap, Electrolytic	10μF	M 16V
CN311	24591103	Cap, Plastic	0.01μF	J 50V
CN312	24203100	Cap, Electrolytic	10μF	M 16V
CN313	24591103	Cap, Plastic	0.01μF	J 50V
CN314	24591103	Cap, Plastic	0.01μF	J 50V
CN315	70040721	Cap, Electrolytic	22μF	M 16V
CN316	70040721	Cap, Electrolytic	22μF	M 16V
CN319	70040493	Cap, Chip	10nF	K 50V
CN320	70042120	Cap, Electrolytic	330μF	M 6.3V

LOCATION NUMBER	PART NUMBER	DESCRIPTION		
[redacted]	[redacted]	Cap, Chip	10nF	K 50V
[redacted]	[redacted]	Cap, Electrolytic	220nF	M 50V
[redacted]	[redacted]	Cap, Chip	75pF	J 50V
[redacted]	[redacted]	Cap, Chip	150nF	K
[redacted]	[redacted]	Cap, Electrolytic	1μF	M 50V
[redacted]	[redacted]	Cap, Ceramic, Chip	270pF	J 50V
[redacted]	[redacted]	Cap, Electrolytic	10μF	M 16V
[redacted]	[redacted]	Cap, Plastic	0.01μF	J 50V
[redacted]	[redacted]	Cap, Electrolytic	10μF	X
[redacted]	[redacted]	Cap, Electrolytic	10μF	M 16V
[redacted]	[redacted]	Cap, Chip	10nF	K 50V
[redacted]	[redacted]	Cap, Electrolytic	10μF	M 16V
[redacted]	[redacted]	Cap, Ceramic, Chip	100pF	J 50V
[redacted]	[redacted]	Res, Chip	3.3kΩ	J 1/16W
[redacted]	[redacted]	Cap, Electrolytic	0.47μF	M 50V
[redacted]	[redacted]	Cap, Chip	1.8nF	K 50V
[redacted]	[redacted]	Cap, Chip	0.015μF	K 50V
[redacted]	[redacted]	Cap, Chip	0.015μF	K 50V
[redacted]	[redacted]	Cap, Electrolytic	4.7μF	25V
[redacted]	[redacted]	Cap, Chip	0.1μF	Z 25V
[redacted]	[redacted]	Cap, Ceramic, Chip	100pF	J 50V
[redacted]	[redacted]	Cap, Ceramic, Chip	100pF	J 50V
[redacted]	[redacted]	Cap, Chip	200pF	J 50V
[redacted]	[redacted]	Cap, Electrolytic	47μF	M 16V
[redacted]	[redacted]	Cap, Electrolytic	22μF	M 16V
[redacted]	[redacted]	Cap, Ceramic, Chip	22nF	K 25V
[redacted]	[redacted]	Cap, Chip	0.68μF	Z 50V
[redacted]	[redacted]	Cap, Chip	680pF	J 50V
[redacted]	[redacted]	Cap, Electrolytic	10μF	M 16V
[redacted]	[redacted]	Cap, Chip	0.68μF	Z 50V
[redacted]	[redacted]	Cap, Chip	0.68μF	Z 50V
[redacted]	[redacted]	Cap, Chip	0.68μF	Z 50V
[redacted]	[redacted]	Cap, Chip	0.68μF	Z 50V
[redacted]	[redacted]	Cap, Chip	0.68μF	Z 50V
[redacted]	[redacted]	Cap, Chip	10nF	Z 50V
[redacted]	[redacted]	Cap, Chip	10nF	Z 50V
[redacted]	[redacted]	Cap, Chip	560pF	K
[redacted]	[redacted]	Cap, Chip	560pF	K
[redacted]	[redacted]	Cap, Chip	1nF	K 50V
[redacted]	[redacted]	Cap, Chip	1nF	K 50V
[redacted]	[redacted]	Cap, Chip	560pF	K
[redacted]	[redacted]	Cap, Chip	560pF	K
[redacted]	[redacted]	Cap, Chip	1nF	K 50V
[redacted]	[redacted]	Cap, Chip	1nF	K 50V
[redacted]	[redacted]	Cap, Chip	560pF	K
[redacted]	[redacted]	Cap, Chip	560pF	K
[redacted]	[redacted]	Cap, Chip	100pF	J 50V
[redacted]	[redacted]	Cap, Chip	100pF	J 50V
[redacted]	[redacted]	Cap, Chip	100pF	J 50V
[redacted]	[redacted]	Cap, Chip	100pF	J 50V
[redacted]	[redacted]	Cap, Chip	0.1μF	Z
[redacted]	[redacted]	Cap, Electrolytic	47μF	M 16V
[redacted]	[redacted]	Cap, Chip	0.1μF	Z
[redacted]	[redacted]	Cap, Chip	0.1μF	Z
[redacted]	[redacted]	Cap, Chip	0.1μF	Z
[redacted]	[redacted]	Cap, Chip	0.1μF	Z
[redacted]	[redacted]	Cap, Electrolytic	47μF	M 16V
[redacted]	[redacted]	Cap, Chip	0.1μF	Z
[redacted]	[redacted]	Cap, Chip	100nF	Z 25V
[redacted]	[redacted]	Cap, Ceramic, Chip	47pF	J 50V
[redacted]	[redacted]	Cap, Chip	100pF	J 50V
		- RESISTORS -		
[redacted]	[redacted]	Res, Chip	5.1kΩ	J 1/10W
[redacted]	[redacted]	Res, Chip	12kΩ	J 1/16W
[redacted]	[redacted]	Res, Chip	12kΩ	J 1/16W
[redacted]	[redacted]	Res, Chip	5.6kΩ	J 1/10W
[redacted]	[redacted]	Res, Chip	30kΩ	J 1/10W
[redacted]	[redacted]	Res, Chip	30kΩ	J 1/10W
[redacted]	[redacted]	Res, Chip	100kΩ	J 1/10W
[redacted]	[redacted]	Chip Jumper		
[redacted]	[redacted]	Chip Jumper		
[redacted]	[redacted]	Res, Chip	68kΩ	J 1/16W
[redacted]	[redacted]	Chip Jumper		
[redacted]	[redacted]	Chip Jumper		

LOCATION NUMBER	PART NUMBER	DESCRIPTION		
RN111	70040358	Res, Chip	10kΩ	J 1/16W
RN112	70040350	Res, Chip	220Ω	J 1/16W
RN113	70040339	Res, Chip	330Ω	J 1/16W
RN114	70040348	Res, Chip	100Ω	J 1/16W
RN115	70040391	Chip Jumper		
RN116	70040363	Res, Chip	47kΩ	J 1/16W
RN117	70040358	Res, Chip	10kΩ	J 1/16W
RN118	70040391	Chip Jumper		
RN119	70041464	Res, Chip	150Ω	J 1/10W
RN120	70040354	Res, Chip	1kΩ	J 1/16W
RN121	70040391	Chip Jumper		
RN122	70040391	Chip Jumper		
RN123	70040571	Res, Chip	12kΩ	J 1/16W
RN124	70040571	Res, Chip	12kΩ	J 1/16W
RN125	70040571	Res, Chip	12kΩ	J 1/16W
RN126	70040571	Res, Chip	12kΩ	J 1/16W
RN127	70040391	Chip Jumper		
RN129	70040391	Chip Jumper		
RN130	70040391	Chip Jumper		
RN134	70040391	Chip Jumper		
RN135	70040571	Res, Chip	12kΩ	J 1/16W
RN136	70040571	Res, Chip	12kΩ	J 1/16W
RN138	70040358	Res, Chip	10kΩ	J 1/16W
RN139	70040358	Res, Chip	10kΩ	J 1/16W
RN140	70040361	Res, Chip	27kΩ	J 1/16W
RN142	70040360	Res, Chip	18kΩ	J 1/16W
RN143	70041387	Res, Chip	220kΩ	J 1/10W
RN144	24872474	Res, Chip	470kΩ	J 1/16W
RN145	24872474	Res, Chip	470kΩ	J 1/16W
RN146	70041387	Res, Chip	220kΩ	J 1/10W
RN147	70040360	Res, Chip	18kΩ	J 1/16W
RN148	70040361	Res, Chip	27kΩ	J 1/16W
RN149	70040135	Res, Chip	12kΩ	J 1/8W
RN150	70040358	Res, Chip	10kΩ	J 1/16W
RN155	70040358	Res, Chip	10kΩ	J 1/16W
RN156	70040335	Res, Chip	2.7kΩ	J 1/16W
RN157	70040367	Res, Chip	120kΩ	J 1/16W
RN158	70040354	Res, Chip	1kΩ	J 1/16W
RN159	70040373	Res, Chip	4.7kΩ	J 1/16W
RN160	70040372	Res, Chip	3.3kΩ	J 1/16W
RN161	70040335	Res, Chip	2.7kΩ	J 1/16W
RN162	70040373	Res, Chip	4.7kΩ	J 1/16W
RN163	70040133	Res, Chip	1kΩ	J 1/8W
RN164	70040367	Res, Chip	120kΩ	J 1/16W
RN165	70040335	Res, Chip	2.7kΩ	J 1/16W
RN166	70040358	Res, Chip	10kΩ	J 1/16W
RN180	70040358	Res, Chip	10kΩ	J 1/16W
RN181	70042145	Res, Chip	3.6kΩ	J 1/16W
RN182	70040367	Res, Chip	120kΩ	J 1/16W
RN183	70040354	Res, Chip	1kΩ	J 1/16W
RN184	70040373	Res, Chip	4.7kΩ	J 1/16W
RN185	70040367	Res, Chip	120kΩ	J 1/16W
RN186	70042145	Res, Chip	3.6kΩ	J 1/16W
RN187	70040358	Res, Chip	10kΩ	J 1/16W
RN188	70040373	Res, Chip	4.7kΩ	J 1/16W
RN189	70040354	Res, Chip	1kΩ	J 1/16W
RN190	70040350	Res, Chip	220Ω	J 1/16W
RN191	70040350	Res, Chip	220Ω	J 1/16W
RN195	70040350	Res, Chip	220Ω	J 1/16W
RN196	70040350	Res, Chip	220Ω	J 1/16W
RN300	70040351	Res, Chip	390Ω	J 1/16W
RN301	70040351	Res, Chip	390Ω	J 1/16W
RN302	70040391	Chip Jumper		
RN303	70040391	Chip Jumper		
RN304	24000576	Chip Jumper		
RN305	70040335	Res, Chip	2.7kΩ	J 1/16W
RN306	70041382	Res, Chip	1.6kΩ	J 1/10W
RN307	70040347	Res, Chip	82Ω	J 1/16W
RN308	70041551	Res, Chip	240Ω	J 1/16W
RN309	70040357	Res, Chip	22kΩ	J 1/16W
RN310	70041801	Res, Chip	11kΩ	J 1/10W
RN311	70041138	Res, Chip	5.6kΩ	J 1/10W
RN312	70041478	Res, Chip	330kΩ	J 1/10W
RN313	70041170	Res, Chip	180Ω	J 1/10W
RN314	70040356	Res, Chip	1.8kΩ	J 1/16W

V726 G. V726 G

LOCATION NUMBER	PART NUMBER	DESCRIPTION		
RN315	70040363	Res, Chip	47kΩ	J 1/16W
RN316	70041801	Res, Chip	11kΩ	J 1/10W
RN317	70041170	Res, Chip	180Ω	J 1/10W
RN318	70040391	Chip Jumper		
RN319	70041138	Res, Chip	5.6kΩ	J 1/10W
RN320	70040361	Res, Chip	27kΩ	J 1/16W
RN321	70040361	Res, Chip	27kΩ	J 1/16W
RN323	70041173	Res, Chip	100kΩ	J 1/10W
RN324	70041173	Res, Chip	100kΩ	J 1/10W
RN325	70041950	Res, Chip	51kΩ	J 1/10W
RN326	70041199	Res, Chip	1MΩ	J 1/10W
RN327	70040358	Res, Chip	10kΩ	J 1/16W
RN331	70040372	Res, Chip	3.3kΩ	J 1/16W
RN332	70040335	Res, Chip	2.7kΩ	J 1/16W
RN340	70040391	Chip Jumper		
RN341	70040361	Res, Chip	27kΩ	J 1/16W
RN342	70040681	Res, Chip	33kΩ	J 1/8W
RN343	70040361	Res, Chip	27kΩ	J 1/16W
RN344	70040362	Res, Chip	33kΩ	J 1/16W
RN345	70040361	Res, Chip	27kΩ	J 1/16W
RN346	70040362	Res, Chip	33kΩ	J 1/16W
RN347	70040361	Res, Chip	27kΩ	J 1/16W
RN348	70040362	Res, Chip	33kΩ	J 1/16W
RN357	70040335	Res, Chip	2.7kΩ	J 1/16W
RN365	70040391	Chip Jumper		
RN366	70040570	Res, Chip	470Ω	J 1/16W
RN370	70040349	Res, Chip	120Ω	J 1/16W
RN371	70040349	Res, Chip	120Ω	J 1/16W
RX001	70040348	Res, Chip	100Ω	J 1/16W
RX002	70040348	Res, Chip	100Ω	J 1/16W
RX003	70040348	Res, Chip	100Ω	J 1/16W
RX004	70040348	Res, Chip	100Ω	J 1/16W
RX007	70040348	Res, Chip	100Ω	J 1/16W
RX008	70040348	Res, Chip	100Ω	J 1/16W
RX009	70040348	Res, Chip	100Ω	J 1/16W
RX010	70040348	Res, Chip	100Ω	J 1/16W
RX011	70040348	Res, Chip	100Ω	J 1/16W
RX012	70040348	Res, Chip	100Ω	J 1/16W
RX013	70040570	Res, Chip	470Ω	J 1/16W
RX014	70040570	Res, Chip	470Ω	J 1/16W
RX017	70040391	Chip Jumper		
RX019	70040391	Chip Jumper		
RX104	70040348	Res, Chip	100Ω	J 1/16W
RX105	70041441	Res, Chip	75Ω	J 1/10W
RX106	70041441	Res, Chip	75Ω	J 1/10W
RX112	70041441	Res, Chip	75Ω	J 1/10W
RX113	70041441	Res, Chip	75Ω	J 1/10W
RX114	70040348	Res, Chip	100Ω	J 1/16W
JX103	70040391	Chip Jumper		
JX104	70040391	Chip Jumper		
JX105	70040391	Chip Jumper		
JX107	70040391	Chip Jumper		
JX109	70040391	Chip Jumper		
ZN002	70040391	Chip Jumper		
ZN003	70040391	Chip Jumper		
ZN005	70040391	Chip Jumper		
ZN006	70040391	Chip Jumper		
ZN007	70040391	Chip Jumper		
ZN008	70040391	Chip Jumper		
ZN009	70040391	Chip Jumper		
ZN010	70040391	Chip Jumper		
ZN011	70040391	Chip Jumper		
ZN012	70040391	Chip Jumper		
ZN013	70040391	Chip Jumper		
ZN014	70040391	Chip Jumper		
ZN015	70040391	Chip Jumper		
ZN017	70040391	Chip Jumper		
ZN018	70040391	Chip Jumper		
ZN020	24872103	Res, Chip	10kΩ	J 1/16W
ZN021	24872103	Res, Chip	10kΩ	J 1/16W
		- MISCELLANEOUS -		
BN002	23164506	Plug 2P		
BN391	70060759	Phono Jack		
BN393	70012358	Pin Jack		
FN001	70011863	Filter	ZJK5103D	

LOCATION NUMBER	PART NUMBER	DESCRIPTION		
FN002	70011863	Filter	ZJK5103D	
FN003	70011863	Filter	ZJK5103D	
FN004	70011863	Filter	ZJK5103D	
QN001	70011858	Crystal	18.432MHz	
ZN001	70011998	Filter	6.5MHz	
0110	70090926	Power Assy		
■0150M		P C Board Assy	Power	
		- INTEGRATED CIRCUITS -		
IP001	70011972	IC	U4614B	
IP002	70011699	IC	LM393N	
		- TRANSISTORS -		
TP091	70011386	Transistor	2SA1020-Y	
TP092	70010131	Transistor	BC337-40	
		- DIODES -		
DP001	70012286	Diode	1N4007	
DP002	70012286	Diode	1N4007	
DP003	70012286	Diode	1N4007	
DP004	70012286	Diode	1N4007	
DP005	70012416	Diode	BA158	
DP007	70012469	Diode	BA157	
DP008	70010817	Diode	1N4148	
DP009	70010817	Diode	1N4148	
DP041	70012468	Diode	BA157	
DP042	70012468	Diode	BA157	
DP051	70012338	Diode	BAV20	
DP052	70012338	Diode	BAV20	
DP053	70012615	Diode, Zener	MTZJ33B	
DP061	70012470	Diode	MUR115	
DP071	70012434	Diode	BAV20	
DP081	70012339	Diode	1N5822	
DP089	70010959	Diode, Zener	ZPD10	
DP090	70012480	Diode	BYV28	
DP091	70012480	Diode	BYV28	
DP093	70010153	Diode	1N4148	
DP094	70011286	Diode, Zener	ZPD5.6	
DP095	70012470	Diode	MUR115	
DZ006	70040358	Res, Chip	10kΩ	J 1/16W
		- COILS -		
LP001	70011950	Line Filter		
⚠LP002	70011949	Line Filter		
⚠LP020	70012427	Power Transformer	TF-SMT13	
LP071	23238916	Coil, Peaking	TRF4330AC	
LP081	70012429	Coil, Peaking		
LP091	70012428	Coil, Peaking		
		- CAPACITORS -		
⚠CP001	70042150	Cap, Plastic	100nF	M
⚠CP002	70041047	Cap, Electrolytic	47μF	M 385V
⚠CP003	70051665	Cap	2.2nF	400V
CP004	70041370	Cap, Ceramic	100pF	K 1kV
CP005	70040237	Cap, Ceramic, Chip	10pF	D 50V
CP006	70040817	Cap, Ceramic	4.7nF	M 50V
CP007	24797100	Cap, Electrolytic	10μF	M 50V
CP008	70040725	Cap, Electrolytic	100μF	M 25V
CP009	70042162	Cap, Chip	390pF	J 50V
CP015	70040248	Cap, Ceramic, Chip	470pF	J 50V
CP020	70041063	Cap, Chip	330pF	J 50V
CP030	70042149	Cap, Chip	6.8nF	M 50V
CP041	70040412	Cap, Electrolytic	220μF	M 10V
CP051	24636010	Cap, Electrolytic	1μF	M 50V
CP055	70040096	Cap, Ceramic	470pF	M 400V
CP056	70041633	Cap, Plastic	10nF	K 100V
CP057	70042131	Cap, Chip	220pF	J 50V
CP061	70042167	Cap, Electrolytic	220μF	M 35V
CP071	70040772	Cap, Electrolytic	47μF	M 50V
CP072	70040496	Cap, Ceramic	100nF	Z 50V
CP073	70040096	Cap, Ceramic	470pF	M 400V
CP081	70041637	Cap, Electrolytic	1000μF	M 16V
CP082	70041891	Cap, Electrolytic	1000μF	X 16V
CP092	70042152	Cap, Electrolytic	0.001F	M 25V
CP093	70040772	Cap, Electrolytic	47μF	M 50V
CP094	24092293	Cap, Chip	0.1μF	Z 25V
CP096	70040244	Cap, Ceramic, Chip	100pF	J 50V
		- RESISTORS -		
RP001	70040358	Res, Chip	10kΩ	J 1/16W

LOCATION NUMBER	PART NUMBER	DESCRIPTION		
[illegible]	[illegible]	Res, Chip	47kΩ	J 1/16W
[illegible]	[illegible]	Res, Chip	22kΩ	J 1/16W
[illegible]	[illegible]	Res, Chip	22kΩ	J 1/16W
[illegible]	[illegible]	Res, Chip	10kΩ	J 1/16W
[illegible]	[illegible]	Res, Chip	33kΩ	J 1/16W
[illegible]	[illegible]	Res, Chip	47kΩ	J 1/16W
[illegible]	[illegible]	Res, Chip	100kΩ	J 1/10W
[illegible]	[illegible]	Res, Chip	15kΩ	J 1/8W
[illegible]	[illegible]	Res, Chip	15kΩ	J 1/8W
[illegible]	[illegible]	Res, Chip	15kΩ	J 1/8W
[illegible]	[illegible]	Res, Chip	2.2kΩ	J 1/16W
[illegible]	70041939	Res, Chip	3.9Ω	K
[illegible]	70040344	Res, Chip	33Ω	J 1/16W
[illegible]	70040688	Res, Chip	10Ω	J 1/8W
⚠RP018	70041078	Res, Fusible	1.5Ω	J 0.3W
RP019	70041167	Res, Chip	1.8kΩ	J 1/8W
RP020	70040691	Res, Chip	27Ω	J 1/8W
⚠RP021	70041673	Res, Fusible	2.2kΩ	J 0.3W
RP022	70041173	Res, Chip	100kΩ	J 1/10W
RP023	70041272	Res, Chip	330kΩ	J 1/8
RP024	70041272	Res, Chip	330kΩ	J 1/8
RP025	70041272	Res, Chip	330kΩ	J 1/8
RP026	70041940	Res, Chip	5.6kΩ	F
RP027	70040566	Res, Chip	15kΩ	J 1/8W
RP028	70040566	Res, Chip	15kΩ	J 1/8W
RP029	70040566	Res, Chip	15kΩ	J 1/8W
RP031	70041172	Res, Chip	39kΩ	J 1/10W
RP032	70041694	Res, Chip	7.5kΩ	J 1/16W
RP052	70041353	Res, Chip	18kΩ	J 1/8W
RP053	70040682	Res, Chip	82kΩ	J 1/8W
RP054	70040134	Res, Chip	220kΩ	J 1/8W
RP055	70041354	Res, Chip	3.9kΩ	J 1/8W
RP057	70041799	Res, Chip	820kΩ	J 1/10W
RP058	70042046	Res, Chip	100Ω	J 0.3W
RP061	70041384	Res, Chip	1.2kΩ	J 1/8W
RP062	70041384	Res, Chip	1.2kΩ	J 1/8W
RP063	70041384	Res, Chip	1.2kΩ	J 1/8W
⚠RP071	70041073	Res, Fusible	22Ω	J 0.3W
RP072	70040566	Res, Chip	15kΩ	J 1/8W
RP089	70040690	Res, Chip	56Ω	
⚠RP091	70042136	Res, Fuse	0.47Ω	K
⚠RP092	70040125	Res, Carbon	47Ω	J 0.3W
RP093	70040358	Res, Chip	10kΩ	J 1/16W
RP094	70040895	Res, Carbon	820Ω	J 1/4W
RP096	70041938	Res, Chip	1kΩ	F 1/10W
RP097	70041941	Res, Chip	1.5kΩ	F 1/10W
RP098	70040358	Res, Chip	10kΩ	J 1/16W
RP099	70040358	Res, Chip	10kΩ	J 1/16W
		- MISCELLANEOUS -		
⚠BP001	70011176	Inlet		
⚠FP001	70010445	Fuse, 1A, 250V		
FP01A	70010597	Fuse Holder		
0200	70095048	KDB/FCB Assy		
■0210M		P C Board Assy	KDB	
		- INTEGRATED CIRCUITS -		
ICK01	70012624	IC	TMP87CM70AF-6425	
		- TRANSISTORS -		
TK01	A6325549	Transistor	2SC2236-Y	
TK02	A6004010	Transistor, Chip	RN1401	
		- DIODES -		
DK01	70011969	Diode, Zener	ZMM5.6V	
		- CAPACITORS -		
CK01	24814223	Cap, Chip	2200pF	Z 50V
CK02	70041376	Cap, Chip	10nF	Z 50V
CK03	70041103	Cap, Chip	33pF	J 50V
CK04	70041103	Cap, Chip	33pF	J 50V
CK05	70041376	Cap, Chip	10nF	Z 50V
CK06	70040647	Cap, Electrolytic	47μF	M 10V
CK07	70041376	Cap, Chip	10nF	Z 50V
CK09	70041292	Cap, Electrolytic	100μF	M 6.3V
CK11	70041376	Cap, Chip	10nF	Z 50V
CK12	70040243	Cap, Ceramic, Chip	82pF	J 50V
		- RESISTORS -		
RK01	70011168	Res, Chip	15Ω	J 1/10W

LOCATION NUMBER	PART NUMBER	DESCRIPTION		
RK02	70041168	Res, Chip	15Ω	J 1/10W
RK03	70040358	Res, Chip	10kΩ	J 1/16W
RK04	70040373	Res, Chip	4.7kΩ	J 1/16W
RK05	70041709	Res, Chip	2.2kΩ	G 1/10W
RK06	70040358	Res, Chip	10kΩ	J 1/16W
RK07	70040350	Res, Chip	220Ω	J 1/16W
RK08	70040358	Res, Chip	10kΩ	J 1/16W
RK09	70040358	Res, Chip	10kΩ	J 1/16W
RK10	70040350	Res, Chip	220Ω	J 1/16W
RK11	70011425	Res, Chip	3kΩ	
RK12	70011425	Res, Chip	3kΩ	
RK13	70011425	Res, Chip	3kΩ	
RK14	70011425	Res, Chip	3kΩ	
RK15	70011425	Res, Chip	3kΩ	
RK16	70040354	Res, Chip	1kΩ	J 1/16W
RK17	70040374	Res, Chip	8.2kΩ	J 1/16W
RK18	70040354	Res, Chip	1kΩ	J 1/16W
RK19	70040354	Res, Chip	1kΩ	J 1/16W
RK20	70011426	Res, Chip	2kΩ	
RK21	70041389	Res, Chip	6.2kΩ	J 1/10W
RK22	70040354	Res, Chip	1kΩ	J 1/16W
RK23	70040374	Res, Chip	8.2kΩ	J 1/16W
RK24	70041138	Res, Chip	5.6kΩ	J 1/10W
RK26	70040350	Res, Chip	220Ω	J 1/16W
RK27	70040373	Res, Chip	4.7kΩ	J 1/16W
RK28	70041171	Res, Chip	1.2kΩ	J 1/10W
RK60	70041618	Res, Oxide Mental	3.3Ω	J 1W
		- MISCELLANEOUS -		
GK01	70012437	FIP	6-MT-255GNK	
GK02	70011589	Diode, LED	SE307-C	
GK03	70011589	Diode, LED	SE307-C	
GK04	70011589	Diode, LED	SE307-C	
QK01	70010937	Resonator	8MHz	
SK03	23344094	Push Switch		
SK04	23344094	Push Switch		
SK06	23344094	Push Switch		
SK08	23344094	Push Switch		
SK10	23344094	Push Switch		
SK13	23344094	Push Switch		
SK14	23344094	Push Switch		
ZR01	70012418	IC	GP1U281X	
■0212M		P C Board Assy	FCB	
		- CAPACITORS -		
CK14	70041707	Cap, Chip	1nF	Z 50V
CK15	70041707	Cap, Chip	1nF	Z 50V
		- RESISTORS -		
RK29	70041441	Res, Chip	75Ω	J 1/10W
RK30	70040354	Res, Chip	1kΩ	J 1/16W
RK31	70040354	Res, Chip	1kΩ	J 1/16W
		- MISCELLANEOUS -		
B201	70011825	Phono Jack		
B701	70011823	Phono Jack		
B702	70011822	Phono Jack		
BK01B	23164505	Plug, 3P		
SK07	23344094	Push Switch		
SK16	23344094	Push Switch		